



New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

REMEDIAL ACTION PERMIT INITIAL APPLICATION –
SOIL

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: AOC-19: QC Lab/AOC-90 Drum Storage, Hess Corporation - Former Port Reading Complex (HC-PR)

List All AKAs:

Street Address: 835 West Avenue

Municipality: Port Reading (Township, Borough, or City)

County: Middlesex Zip Code: 07064

Program Interest (PI) Number(s): 006148

Case Tracking Number(s): E20130449

Municipal Block(s) and Lot(s) of the site/property: Block 664.01, Lot 1.01

Is this site a Federal case? ☒ Yes ☐ No

If "Yes", indicate the Federal Case Type:

☒ RCRA GPRA 2020 ☐ CERCLA/NPL ☐ USDOD ☐ USDOE

☐ Other (explain):

SECTION B. INITIAL SOIL REMEDIAL ACTION PERMIT APPLICATION

1. Reason for Initial Soil Remedial Action Permit (RAP) Application: (check one)

☒ To support a Response Action Outcome (RAO)

☐ To support a Post-No Further Action (NFA)

Note: This permit application will not be processed until all past RAP annual fees
and the Remedial Action Protectiveness/Biennial-Certification fee have been paid in full.

☐ Subdivision of an existing Soil RAP

Has the Soil RAP Modification or Termination Application also been
submitted for the original parcel(s)? ☐ Yes ☐ No

If "No", please explain why in Section K below.

☐ Other (provide reason - see instructions):

2. The Initial Soil RAP Application fee must be enclosed with this application.

Effective on or Before
June 30, 2021

Effective
July 1, 2021

Soil RAP Fee – Initial\$1,650.00\$1,760.00

SECTION C. FEE BILLING CONTACT PERSONBusiness Name: Hess CorporationFirst Name of Contact: JohnLast Name of Contact: SchenkewitzTitle: Senior Advisor, EHSPhone Number: (609) 406-3969

Ext.: _____

Fax: (732) 352-7795Mailing Address: Trenton-Mercer Airport, 601 Jack Stephan WayMunicipality: West TrentonState: New JerseyZip Code: 08628Email Address: jschenkewitz@hess.com**SECTION D. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION – CO-PERMITTEE**☐ Addendum for additional Person Responsible for Conducting the Remediation has been completed.Affiliation/Name of Organization: Hess CorporationFirst Name of Contact: JohnLast Name of Contact: SchenkewitzTitle: Senior Advisor, EHSPhone Number: (609) 406-3969

Ext.: _____

Fax: (732) 352-7795Mailing Address: Trenton-Mercer Airport, 601 Jack Stephan WayMunicipality: West TrentonState: New JerseyZip Code: 08628Email Address: jschenkewitz@hess.com☒ Check if the Person Responsible for Conducting the Remediation has Primary Responsibility for Permit Compliance**SECTION E. CURRENT OWNER OF THE SITE – CO-PERMITTEE**☐ Addendum for additional Owner of the Site has been completed.Affiliation/Name of Organization: Amerada Hess CorporationFirst Name of Contact: JohnLast Name of Contact: SchenkewitzTitle: Senior Advisor, EHSPhone Number: (609) 406-3969

Ext.: _____

Fax: (732) 352-7795Mailing Address: 1900 Dalrock RoadMunicipality: RowlettState: TexasZip Code: 75088Email Address: jschenkewitz@hess.com☐ Check if the owner has Primary Responsibility for Permit Compliance**SECTION F. ATTACHED DOCUMENTS**Attach the following documents: *(Check all that apply)***Note:** All electronic copies should be provided in Adobe PDF file format on a compact disc (CD).

- ☒ Hard copy **and** electronic copy of the Soil RAP Application using the current form on the NJDEP Website.
- ☒ Electronic copy of the Filed Deed Notice document (must be a separate Adobe PDF file) with book and page numbers, which should include all associated attachments/exhibits.
- ☒ Remedial Action Report (RAR) submitted through the online portal unless this application is related to a Post-NFA Case. For Post-NFA Cases, submit an electronic copy of the RAR and any other pertinent reports/letters (e.g., Remedial Action Workplan (RAW) Approval Letters).

Provide the Licensed Site Document (LSD) Activity Number for the RAR online submission: N/A (see below*)

*Site is under traditional oversight and documents aren't submitted via the portal. A copy of the RIR/RAR has been included with this submission

- ☒ Electronic copy of a map or the location in the RAR (*Section #s/Figure #s*) of the map(s) showing area of concern/source and showing and/or explaining horizontal and vertical delineation of the soil contamination.

Location in the RAR (*Section #s/Figure #s*): Section 5.1, Section 6.1, and Section 7.0

- ☐ Electronic copy of the NFA Letter, if applicable. (*Post-NFA Cases only*)
- ☒ Electronic copy of the completed Remediation Cost Review and RFS/FA Form with a detailed cost estimate, if applicable, including:

Only Check One:

- ☒ **Original** Financial Assurance mechanism (*hard copy*), including any Amendments, attached.
- ☐ Date the original Financial Assurance mechanism was submitted to the NJDEP: _____
- ☐ An electronic copy of the Remediation Funding Source (RFS) mechanism, if using an existing RFS mechanism as the Financial Assurance, and the amendment to conform to the Financial Assurance format.
- ☐ Electronic copy of the homeowner or condominium association's annual budget that includes funds for the operation, maintenance, and monitoring of the engineering control(s) at the site, if applicable.

SECTION G. DEED NOTICE INFORMATION

1. Deed Notice filing date: 05/12/2021
2. Name of County Office the Deed Notice was filed in: Middlesex
3. Book Number the Deed Notice is filed in: 18440 Page Numbers: First: 757 to Last: 786
4. Total Number of Pages filed: 30
5. Instrument/Control/File Number(s): 2021064485
6. Block(s) and Lot(s) of the restricted area:
Block 664.01, Lot 1.01
7. Is the restricted area the entire site/property? ☒ Yes ☐ No
If "**No**", what percent of the site/property is restricted? _____ %
8. Is this Deed Notice for Historic Fill at the site? ☐ Yes ☒ No
If "**Yes**", is the Historic Fill impacting the ground water at the site? ☐ Yes ☐ No
If the Historic Fill **is** impacting the ground water at the site, has the CEA/WRA Fact Sheet Form been submitted to the NJDEP? ☐ Yes ☐ No
If the CEA/WRA Fact Sheet Form has not been submitted, **attach** the Form to this application.
If the Historic Fill **is not** impacting the ground water at the site, then check one of the boxes below to explain why:
☐ Ground water sampled as per the guidance and below GWQS
☐ Ground water not sampled because no trigger in SI/RI
9. Is this Deed Notice for Polychlorinated Biphenyl (PCB) soil contamination greater than 1 part per million (ppm) remaining at the site? ☐ Yes ☒ No
If "**Yes**", provide the location in the RAR (*Section #*) that documents compliance/approval with the federal Toxic Substances Control Act (TSCA) program: _____
10. Has the Deed Notice restricted area been accurately mapped on NJ-GeoWeb? ☐ Yes ☒ No
If "**No**", submit a GIS compatible map of the Deed Notice restricted area by email to srpgis_dn@dep.nj.gov and provide the date the email was sent: _____
11. Was a compliance option (e.g., compliance averaging) used to evaluate the data? ☐ Yes ☒ No
If "**Yes**", provide the location in the RAR (*Section #*) that describes the details of the compliance option used: _____

12. Is a low permeability cap being used to address the IGW pathway at the site?..... ☐ Yes ☒ No

If "Yes", provide the location in the RAR (*Section #*)

that describes the details of the low permeability cap used: _____

And check the appropriate box below and answer the corresponding questions:

☐ **VOCs with ground water contamination**

Has a Ground Water Remedial Action Permit Application been submitted?..... ☐ Yes ☐ No

Has MNA been demonstrated while the site has been capped?..... ☐ Yes ☐ No

If "No", provide the location in the RAR (*Section #*)

that justifies the deviation from the Capping of Volatile

Contaminants for the Impact to Ground Water Pathway guidance: _____

☐ **VOCs without ground water contamination**

Are the soil vapor sample concentrations below the Impact to Ground Water Soil Vapor Screening Levels for the appropriate timeframe?..... ☐ Yes ☐ No

If "No", provide the location in the RAR (*Section #*)

that justifies the deviation from the Capping of Volatile

Contaminants for the Impact to Ground Water Pathway guidance: _____

☐ **Inorganics/SVOCs with ground water contamination**

Has a Ground Water Remedial Action Permit Application been submitted?..... ☐ Yes ☐ No

If "No", provide the location in the RAR (*Section #*) that justifies

the deviation from the Capping of Inorganic and Semi-Volatile

Contaminants for the Impact to Ground Water Pathway guidance: _____

☐ **Inorganics/SVOCs without ground water contamination**

Is there a minimum 2-foot clean soil buffer above the seasonal high-water table?..... ☐ Yes ☐ No

If "No", provide the location in the RAR (*Section #*) that justifies

the deviation from the Capping of Inorganic and Semi-Volatile

Contaminants for the Impact to Ground Water Pathway guidance: _____

13. In the following table, list all contaminants still present at the site/property that require the use of a Deed Notice (*attach additional pages if needed*). For each contaminant indicate the highest concentration at any depth, and the shallowest depth at which a concentration was detected above standards, as measured to include the thickness of the cap. Note that the highest concentration and the shallowest depth can be from two different sampling points. **Do not attach tables from reports.**

If Historic Fill is present, check the appropriate box below:

- ☐ Visually Characterized historic fill assumed to be contaminated but not sampled
☐ Historic fill sampled (*provide soil sample results below*)

Contaminant	Highest Concentration* (mg/kg)		Shallowest Depth (feet bgs)	Residential Direct Contact Soil Remediation Standard	Non-Residential Direct Contact Soil Remediation Standard	Impact to Ground Water Pathway Soil Remediation Standard
Arsenic	108	<input checked="" type="checkbox"/>	3.0-3.5	19	19	-
Beryllium	0.99	<input checked="" type="checkbox"/>	2.5-3.0	16	140	0.7
Lead	127	<input checked="" type="checkbox"/>	2.5-3.0	800	400	90
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				

* Check the box if the highest concentration was the result of a compliance option.

SECTION H. ENGINEERING CONTROL (Only complete this Section if an engineering control is in place.)

1. Current Land Use for the Engineering Controlled Area (*check all that apply*)

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Industrial | <input type="checkbox"/> Park or Recreational Use | <input type="checkbox"/> Child Care Center |
| <input type="checkbox"/> Residential | <input type="checkbox"/> Agricultural | <input type="checkbox"/> Hospital |
| <input type="checkbox"/> Commercial | <input type="checkbox"/> Road/Right of Way | <input checked="" type="checkbox"/> Vacant |
| <input type="checkbox"/> Government Facility | <input type="checkbox"/> School | <input type="checkbox"/> Other: _____ |

2. If school, childcare, or residential was checked above, was a presumptive remedy implemented pursuant to N.J.A.C. 7:26E-5.3? ☐ Yes ☐ No ☒ N/A

If "No", when was the alternate remedy approved by the NJDEP? _____

3. Identify below the materials used for the engineering control(s) that are contained in Exhibit C of the Deed Notice.

Area	Engineering Control Description	Thickness	Units	Inspection frequency
Capped Area 1	Permeable Cap	6	Inches	Annually
Capped Area 2	Permeable Cap	6	Inches	Annually

Other, describe:

Capped Area 1 - Recycled Concrete (BUD Documentation attached)
Capped Area 2 - Crushed Stone (Clean Fill Documentation attached)

SECTION I. FINANCIAL ASSURANCE

1. Does the remedial action/Deed Notice include an engineering control? ☒ Yes ☐ No

If "No", proceed to the next section.

2. Are any of the entities identified in Section D or E exempt from establishing Financial Assurance pursuant to N.J.A.C. 7:26C-7.10(c)? ☐ Yes ☒ No

If "Yes", check the exemption(s) that applies:

Person Responsible for Conducting the Remediation – Co-Permittee	Current Owner of the Site – Co-Permittee	
<input type="checkbox"/>	<input type="checkbox"/>	Government entity
<input type="checkbox"/>	<input type="checkbox"/>	A person not liable pursuant to the Spill Act that purchased contaminated property before May 7, 2009
<input type="checkbox"/>	<input type="checkbox"/>	A person that conducted remediation at their primary or secondary residence
<input type="checkbox"/>	<input type="checkbox"/>	Owner or operator of a child care center
<input type="checkbox"/>	<input type="checkbox"/>	Public school or private school
<input type="checkbox"/>	<input type="checkbox"/>	Owner or operator of a small business responsible for conducting remediation at the location of the business

If all of the entities identified in Section D or E are exempt, proceed to the next section.

3. Is the current owner of the site either a homeowner association or a condominium association pursuant to the New Jersey Common Interest Association Act, N.J.S.A. 46:8A-1 et seq.? ☐ Yes ☒ No

If "Yes" and the association is identified in Section E of this RAP Application, an electronic copy of the association's annual budget that includes funds for the operation, maintenance, and monitoring of the engineering control(s) at the site should be attached as indicated in Section F above.

4. Identify the estimated cost of the operation, maintenance, and monitoring of the engineering control(s) at the site: \$ 68,163.00

5. Are you using an existing RFS mechanism for the site as the Financial Assurance? ☒ Yes ☐ No

If "Yes", have all of the following criteria been met? ☒ Yes ☐ No

- The amount of funds needed to operate, maintain, and monitor the engineering control(s) at the site for 30 years (*minimum of \$30,000 for a 30-year time frame*);
- The amount of funds in the RFS equals the amount of funds required to be posted for RFS and Financial Assurance; and
- The RFS is not in the form of a self-guarantee.

Identify the full amount of the current RFS \$ 68,163.00

6. Identify the full amount established as a Financial Assurance: \$ 68,163.00

As indicated in Section F above, an electronic copy of the completed Remediation Cost Review and RFS/FA Form should be attached. Also, please be sure to provide one of the following as indicated in Section F above: attach the original Financial Assurance mechanism (hard copy), including any Amendments, to the Soil RAP Application; the date the original Financial Assurance mechanism was submitted to the NJDEP; or an electronic copy of the existing RFS mechanism that is being used as the Financial Assurance and the amendment to conform to the Financial Assurance format.

7. What is the Financial Assurance Mechanism? (*Check all that apply*)

- | | | |
|---|--|--------------------------------------|
| <input type="checkbox"/> Remediation Trust Fund | <input type="checkbox"/> Line of Credit | <input type="checkbox"/> Surety Bond |
| <input type="checkbox"/> Environmental Insurance Policy | <input checked="" type="checkbox"/> Letter of Credit | |

8. Contact information at the financial institution for the Financial Assurance:

Financial Institution: Credit Agricole

First Name of Contact: Pik (Winnie)

Last Name of Contact: Hung

Title: Senior Associate

Phone Number: (212) 261-3324

Ext.: _____

Fax: (917) 849-5589

Mailing Address: 1301 Avenue of the Americas

Municipality: New York

State: New York

Zip Code: 10019

Email Address: _____

SECTION J. VAPOR INTRUSION SUMMARY

1. Are there any buildings with an Indeterminate Vapor Intrusion Pathway status as a result of this soil contamination and not ground water contamination? ☐ Yes ☒ No

If "Yes", provide the location in the RAR (Section # and Figure #)

that documents this issue: _____

2. Is there soil gas contamination above the Soil Gas Screening Levels beneath any buildings that require long-term monitoring as a result of this soil contamination and not ground water contamination? ☐ Yes ☒ No

If "Yes", provide the location in the RAR (Section # and Figure #)

that documents this issue: _____

Attach an electronic copy of the Vapor Intrusion Long-Term Monitoring Plan.

3. Are any vapor intrusion engineering controls/mitigation systems currently installed at any buildings as a result of this soil contamination (and not ground water contamination) that remain on the site/property and included in the Deed Notice? ☐ Yes ☒ No

If "Yes", indicate the type of engineering control that was implemented: (check all that apply)

☐ Subsurface Depressurization System

☐ Subsurface Ventilation System

☐ Soil Vapor Extraction System

☐ HVAC Positive Pressure

☐ Other (specify): _____

Attach an electronic copy of the Operation, Maintenance, and Monitoring (OMM) Plan for the vapor intrusion engineering control(s)/mitigation system(s). The OMM Plan should clearly identify the building(s) and/or structure(s) and vapor intrusion engineering control(s)/mitigation system(s) that are in place (e.g., active or passive), including the address and block and lot of each impacted property.

SECTION K. OTHER INFORMATION PROVIDED

List any other pertinent information to support the Initial Soil RAP Application.

The Former Hess Corporation Port Reading Complex (HC-PR) (NJDEP PI# 006148) is subject to the requirements of ISRA (Case No. E20130449) and RCRA Corrective Action (EPA ID No. NJD045445483). This Remedial Action Permit Application - Soil is addressing two (2) areas of concern (AOCs). The NJDEP Traditional Oversight Case Team approved the July 2019 Remedial Investigation/Remedial Action Report and the proposed remedial actions (institutional and engineering controls) for AOC-19 and AOC-90 in its correspondence dated November 22, 2019.

AOC - 19 Quality Control (QC) Laboratory - was constructed between 1957 and 1963 (land was vacant prior to) and was used to analyze/assess the raw and refined components associated with HC-PR operations. The investigation within AOC -19 focused on the former USTS, which were connected to the laboratory sinks. The QC Laboratory building was demolished in 2015 and included the decommissioning of four (4) USTs. Post-UST closure assessment revealed dissolved phase groundwater contamination in temporary well TW-T2-5, which was located at former UST T2. Soil remediation activities consisting of the excavation and off-site disposal of 478 tons of soil to a depth of 12 feet was completed. Post-remedial soil and groundwater investigation (MW-4) confirmed that the source area had been successfully addressed. AOC-19 has been extensively investigated with over 60 soil samples analyzed for VOCs, over 50 soil samples analyzed for EPH; over 40 soil samples analyzed for SVOCs - BNs and metals, and approximately 20 soil samples analyzed for chromium and SVOC Acid Extractables. Of the sampling above, one (1) sample (P-13 2.0-2.5) contained arsenic at a concentration greater than the NRDCSRS. Arsenic within Capped Area #1 is defined to the north, south, east, west, and vertically by soil samples P-5 (2.0-2.5), PD-3A(4-4.5)/P-3(2.-2.5), P-1(2.0-2.5)/P-2(2.0-2.5), P-4(2.0-2.5), and P-13(4.-4.5), respectively. A recycled concrete cap is the engineering control in place for Capped Area 1. Documentation relating to the Beneficial Use Determination for the recycled concrete is included with this submittal.

AOC - 90 - Former Drum Compound was identified via the review of historical aerial photographs. Two (2) soil samples were collected during the site investigation; five (5) soil samples were collected in the remedial investigation, and one (1) temporary well was installed in the remedial investigation. Of the sampling above, arsenic was detected at concentration of 108 mg/kg and 44.9 mg/kg in samples QCSB-2 (2.5-3.0) and QCSB-5(3.0-3.5), respectively. The arsenic NRDCSRS is 19 mg/kg. Although sampling within Capped Area #2 is limited due to the presence of third-party pipeline-related ground disturbance exclusion zones and an adjacent active railroad, arsenic within Capped Area #2 is defined to the north, south, and vertically by soil samples QCSB-3 (0.5-1.0), QCSB-9(3.0-3.5), and QCSB-2 (10.0-10.5), respectively. Third-party pipeline-related ground disturbance exclusion zones limit sampling to the west; however, QCSB-1 (10.0-10.5) and QCSB-4 (0.5-1.0) contained arsenic at 8.3 mg/kg and 3.7 mg/kg, respectively. Soil sampling to the east was not possible due to third party pipeline-related ground disturbance exclusion zones and an active railroad. The eastern extent of Capped Area #2 aligns with the property boundary. A crushed stone cap is the engineering control in place for Capped Area 2. Certified clean fill documentation is included with this submitta

SECTION L. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation:

Hess Corporation

Representative First Name: John

Representative Last Name: Schenkewitz

Title: Senior Advisor, EHS

Phone Number: (609) 406-3969

Ext.: _____

Fax: (732) 352-7795

Mailing Address: Trenton-Mercer Airport, 601 Jack Stephan Way

City/Town: West Trenton

State: New Jersey

Zip Code: 08628

Email Address: jschenkewitz@hess.com

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: 

Date: 8/20/21

Name/Title: John Schenkewitz, Senior Advisor EHS

SECTION M. CURRENT OWNER OF THE SITE INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible who owns the site:

Amerada Hess Corporation

Representative First Name: John

Representative Last Name: Schenkewitz

Title: Senior Advisor, EHS

Phone Number: (609) 406-3969

Ext.: _____

Fax: (732) 352-7795

Mailing Address: Trenton-Mercer Airport, 601 Jack Stephan Way

City/Town: West Trenton

State: New Jersey

Zip Code: 08628

Email Address: jschenkewitz@hess.com

This certification shall be signed by the person who owns the site and is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: 

Date: 8/20/21

Name/Title: John Schenkewitz, Senior Advisor EHS

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

SECTION N. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 576297

First Name: John

Last Name: Virgie

Phone Numbers: (732) 739-6444

Ext.: _____

Fax: (732) 739-0451

Mailing Address: 1625 Highway 71

Municipality: Belmar

State: New Jersey

Zip Code: 07719

Email Address: jvirgie@earthsys.net

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-14, and N.J.S.A. 58:10B-1.3b(1) and (2).

(1) I certify, as a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C-1 et seq. to conduct business in New Jersey, that for the remediation described in this submission, and all attachments included in this submission, I personally: Managed, supervised, or performed the remediation conducted at this site that is described in this submission, and all attachments included in this submission; and/or periodically reviewed and evaluated the work performed by other persons that forms the basis for the information in this submission; and/or completed the work of another site remediation professional, licensed or not, after having: (1) reviewed all available documentation on which I relied; (2) conducted a site visit and observed the then-current conditions and verified the status of as much of the work as was reasonably observable; and (3) concluded, in the exercise of my independent professional judgment, that there was sufficient information upon which to complete any additional phase of remediation and prepare workplans and reports related thereto.

(2) I certify:

- That I have read this submission and all attachments to this submission;
- That in performing the professional services as the licensed site remediation professional for the entire site or each area of concern, I adhered to the professional conduct standards and requirements governing licensed site remediation professionals provided in N.J.S.A. 58:10C-16;
- That the remediation conducted at the entire site or each area of concern, that is described in this submission and all attachments to this submission, was conducted pursuant to and in compliance with the remediation requirements in N.J.S.A. 58:10C-14.c;
- That the remediation described in this submission, and all attachments to this submission, was conducted pursuant to and in compliance with the regulations of the Site Remediation Professional Licensing Board at N.J.A.C. 7:26I; and
- That the information contained in this submission and all attachments to this submission is true, accurate, and complete.

(3) I certify, when this submission includes a response action outcome, that the entire site or each area of concern has been remediated in compliance with all applicable statutes, rules, and regulations and is protective of public health and safety and the environment.

(4) I certify that no other person is authorized or able to use any password, encryption method, or electronic signature that the Board or the Department have provided to me.

(5) I certify that I understand and acknowledge that:

- If I knowingly make a false statement, representation, or certification in any document or information I submit to the Department I may be subject to civil and administrative enforcement pursuant to N.J.S.A. 58:10C-17.a.1(a) through (f) by the Board, including but not limited to license suspension, revocation, or denial of renewal; and
- If I purposely, knowingly, or recklessly make a false statement, representation, or certification in any application, form, record, document or other information submitted to the Department or required to be maintained pursuant to the Site Remediation Reform Act, I shall be guilty, upon conviction, of a crime of the third degree and shall, notwithstanding the provisions of subsection b. of N.J.S.2C:43-3, be subject to a fine of not less than \$5,000 nor more than \$75,000 per day of violation, or by imprisonment, or both.

(6) I certify that I have read this certification prior to signing, certifying, and making this submission.

LSRP Signature: _____

Date: _____

LSRP Name: John S. Virgie / LSRP

Company Name: Earth Systems, Inc.

**Beneficial Use Determination Documentation
(Capped Area 1)**

&

**Certified Clean Fill Documentation
(Capped Area 2)**



October 19, 2015

Vincent McDermott
Bureau of Landfill and Hazardous Waste Permitting
NJDEP Solid and Hazardous Waste Management Program
PO Box 414
Trenton, NJ 08625-0414

LSRP Certification Statement
Application for a Certificate of Authority to Operate a Beneficial Use Determination
Hess Former Quality Control Laboratory
835 West Avenue, Port Reading, Middlesex County, NJ
PI #004800

"I certify that the technical contents of the submittal to the Department dated August 11, 2015, has been evaluated by me with respect to the site conditions, and the use of the material at the destination site. The use of the material complies with all applicable New Jersey site remediation program regulations, guidance, and policies, including but not limited to the alternative and historic fill policies, and that the beneficial use project took place under my general oversight and will be documented in a future report as part of overall remedial action for the destination site."



James C. Coyne, LSRP
LSRP #587350
EnviroTrac Ltd.



August 11, 2015

**Robert Confer, Bureau Chief
Bureau of Landfill and Hazardous Waste Permitting
NJDEP Solid and Hazardous Waste Management Program
P.O. Box 414
Trenton, NJ 08625-0414**

**RE: Application for Certificate of Authority to Operate a Beneficial Use Determination
Hess Corporation Former Quality Control Laboratory
835 West Avenue, Port Reading, Middlesex County, New Jersey
PI #: 004800**

Dear Mr. Confer,

EnviroTrac, Ltd. (EnviroTrac), on behalf of Hess Corporation (Hess), submits the attached request for a Certificate of Authority to Operate a Beneficial Use Determination (CAO/BUD) pursuant to N.J.A.C. 7:26-1.7(g) for non-soil (crushed concrete) materials. Enclosed please find the required NJDEP Forms, owner certifications, fee payment, and additional pertinent supporting documentation.

The non-soil (crushed concrete) material was produced during the recent demolition of the Hess Corporation – Former Quality Control Laboratory located at 835 West Avenue, in Port Reading, New Jersey. The origin of the material consisted of the concrete foundation (slab on grade) and exterior and interior concrete walls associated with the former Quality Control Laboratory building.

In September and October 2014, in-situ concrete chip samples were collected pre-demolition, as per the NJDEP January 2010 *Guidance for Characterization of Concrete and Clean Material Certification for Recycling*. The results of the concrete chip sampling were compared to the applicable Residential and Non Residential Direct Contact Soil Remediation Standards (RDCSRS and NRDCSRS). Material identified as exceeding the applicable criteria was segregated and disposed of off-site as Construction and Demolition Debris (ID010). The analytical results of the remaining proposed material was compared to the default Impact to Groundwater Soil Screening Level (IGWSSL), as per the NJDEP April 2015 *Fill Material Guidance for SRP Sites*. Site Specific Impact to Groundwater Criteria was developed for material reported above the IGWSSL, but below the RDCSRS and NRDSRS. Material qualifying as clean fill, in accordance with the applicable standards and criteria, was crushed on-Site under a 90-day air permit and used on-site as beneficial use material.

The non-soil (crushed concrete) material was utilized on-site for filling and surface grading of the former Quality Control Laboratory building footprint and five (5) subsurface structures removed concurrently with the building demolition. The subsurface structures included three (3) USTs (one 550-gallon, one 4,000-gallon, and one 10,000-gallon) and two (2) sumps (approximately 75 ft³ and 80 ft³ in volume). The subsurface structures, discovered abandoned-in-place beneath the building's concrete slab during the demolition activities, were removed from the subsurface and partially backfilled with surrounding site soils. It should be noted that the site of origin is being remediated under the New Jersey Department of Environmental Protection (NJDEP) Site Remediation Program (Preferred ID 004800).

EnviroTrac cordially requests the CAO/BUD approval within the earliest possible timeframe. If you have any questions please contact John Schenkewitz of Hess at 732-750-6616.

Sincerely,
EnviroTrac, Ltd.

James C. Coyne, LSRP #587350
Regional Operations Manager

Cc Phil Cole – NJDEP – Bureau of Case Management
Nidal Azzam – USEPA Region II (w/o enclosure)
Andy Park – USEPA Region II (electronic)
John Schenkewitz – Hess Corporation (enfes)
Project File



**Part II: APPLICATION FORM FOR A CERTIFICATE OF
AUTHORITY TO OPERATE (CAO) A BENEFICIAL USE
PROJECT**

Date: August 11, 2015

1. GENERATOR AND/OR OWNER IDENTIFICATION:

The generator and/or owner who originally produced the material under consideration for use in a beneficial use project:

Name: Hess Corporation Former Quality Control Laboratory

Telephone Number: NA

Street Address: 835 West Ave

City or Town: Port Reading

State: NJ

Zip Code: 07064

Block(s)/Lots: 664.01/1.01

Municipality: Woodbridge Township

County: Middlesex

Refer to Figure 1 – USGS Topographic Map Arthur Kill New Jersey/ New York Quadrangle for the Site Location.

2. DESTINATION SITE IDENTIFICATION:

The materials produced for beneficial use consideration will remain on-site.

Name: Hess Corporation Former Quality Control Laboratory

Street Address: 835 West Ave

City or Town: Port Reading

State: NJ

Zip Code: 07064

Municipality: Woodbridge Township

County: Middlesex

Refer to Figure 1 – USGS Topographic Map Arthur Kill New Jersey/ New York Quadrangle for the Site Location.

NOTE: For out-of-State and in-State uses, the Department will share all information, such as material history, enforcement issues, analytical data and related information concerning the material with the receiving facility, related parties of interest and relevant State regulatory agencies during the application review and confirmation process.

3. PROJECT CONTACT PERSON:

Name: Jim Coyne, LSRP# 587350

Telephone Number: 609-387-5553

Title: Regional Operations Manager

Company Name: EnviroTrac Ltd.

Street Address: 6 Terri Ln, Suite 350

City or Town: Burlington State: NJ

Zip Code: 08016

4. NAME OF MATERIAL: Non-Soil (Crushed Concrete)

5. MATERIAL QUALIFICATIONS:

(a) Is the proposed material classified as a hazardous waste in New Jersey?
Yes ____ No X

(b) Is the proposed material subject to Land Disposal Restrictions Phase IV at 40 C.F.R. 268? Yes ____ No X

(c) Is the proposed material ineligible for consideration pursuant to N.J.A.C. 7:26-1.7(g)?
Yes ____ No X

Note: If you answered Yes to any one of the three qualifying questions above, the material does not qualify for an exemption under the Beneficial Use regulations and must continue to be managed as a solid or hazardous waste.

Provide a detailed narrative on how the proposed material was determined to qualify for beneficial use in view of the qualifying criteria in Section 3.

The non-soil (crushed concrete) material proposed for a solid waste exemption under the Beneficial Use regulations, pursuant to N.J.A.C. 7:26-1.7(g), was generated from the demolition of the Former Quality Control Laboratory building. The non-soil (crushed concrete) material is not categorically approved for beneficial use (N.J.A.C. 7:26-1.7(g)(4)), therefore, a Certificate of Authority to Operate (CAO) a Beneficial Use Project Application has been completed.

Material sampling and analytical analysis of the non-soil (crushed concrete) was conducted in accordance with the *Guidance for Characterization of Concrete and Clean Material Certification for Recycling* (January 2010). The sampling of the on-site above grade structures was conducted in order to characterize non-soil (concrete) material proposed for beneficial use. A total of six (6) concrete chip samples were collected in-situ pre-demolition from the exterior and interior sections of the walls and flooring. The sample locations included: one (1) concrete sample collected from the older portion (circa 1963) of the concrete slab, one (1) concrete sample collected from the newer portion (circa 1972) of the concrete slab, two (2) concrete wall samples of interior wall locations, and two (2) concrete wall samples of exterior wall locations. The concrete chip samples were collected no deeper than one inch below the wall surface (0.25 inches below surface for the concrete slab flooring) using a handheld hammer drill with a steel chisel hammer drill bit. The sample locations were biased toward visible staining and indications of potential impact, if present. The

sampling frequency was determined by each distinct area of proposed demolition and/or structure type (i.e., foundation, wall etc.). Each sample represented approximately 115 cubic yards (yds³) for an estimated total of 690 yds³ (1,205 tons) of non-soil (crushed concrete). Refer to Figure 2 (Material Origin/ Sample Location Site Map) for the demolition area and concrete sample locations.

Laboratory analysis was submitted for the following parameters: the United States Environmental Protection Agency's (USEPA) Polychlorinated Biphenyls (PCBs), Polycyclic Aromatic Hydrocarbons (PAHs), Target Analyte List/Target Compound List plus 30 (TAL/TCL + 30), Toxicity Characteristic Leaching Procedure (TCLP), and Extractable Petroleum Hydrocarbons (EPH) per *Guidance for Characterization of Concrete and Clean Material Certification for Recycling* (January 2010). No samples were submitted for Dioxins/Furans or Radionuclides analysis as there is no known or suspected use of these constituents on the Site. Refer to Table 2 (Analytical Data Summary Table) for a summary of the analytical results. The complete analytical data package is provided in Attachment 1.

Sampling results determined that the non-soil (crushed concrete) material does not meet any criteria or characteristic and is free of any other contaminant or waste that would:

- (a) Cause the material to be classified as a hazardous waste in New Jersey;
- (b) Make the material subject to Land Disposal Restrictions Phase IV at 40 C.F.R. 258; and
- (c) Otherwise make the material ineligible for consideration for regulation pursuant to N.J.A.C. 7:26-1.7(g).

6. BENEFICIAL USE PROJECT DESCRIPTION:

(a) Description of Location of Site of Material Origin:

The non-soil (crushed concrete) material was produced during the demolition of the Hess Corporation Former Quality Control Laboratory building located at 835 West Avenue, Port Reading, New Jersey. The origin of the material includes the building foundation (slab on grade) and the interior and exterior concrete block walls. All non-concrete materials (i.e., windows, doors, roofing, etc.) were removed and segregated from the non-soil (concrete) material prior to the building demolition. Additionally, asbestos containing materials were removed prior to the building demolition under an asbestos abatement conducted in September 2014. Refer to Figure 2 (Material Origin/ Sample Location Site Map) for a map of the demolition areas.

(b) Provide a General Description of the Site of Origin:

The Former Quality Control Laboratory property, designated as Block 664.01, Lot 1.01 (1.89 acres), is located at the intersection of West Avenue and Milos Way between West Avenue and the Conrail Railroad right-of-way. The property was sparsely developed prior to the construction of the Quality Control Laboratory building. According to the review of historical aerial photographs, the Quality Control building was constructed between 1957 and 1963, with an apparent building expansion between 1970 and 1972. Aerial photographs dated after 1972 indicate minimal changes to the area. The lab was historically used for quality control analysis of petroleum products manufactured at the refinery and was in use until December 2013.

(c) Description of any Regulatory Activity Conducted at the Site of Origin (in-state use only)

The Site property (Quality Control Laboratory) located at 835 West Avenue, Port Reading, New Jersey is being remediated under the New Jersey Department of Environmental Protection (NJDEP) Site

Remediation Program (Preferred ID # 004800). The following case tracking numbers are associated with the Quality Control Laboratory:

- NJDEP # 13-07-24-1427-02 – Removal of one (1) 10,000-gallon Underground Storage Tank (UST) – Active
- NJDEP # 93-01-28-1023 – UST Remediation/ Remedial Investigation – NFA (10/27/1994)

(d) Description of any Regulatory Activity Conducted at the Site of Destination (in-state use only):

See Section (c) above.

(e) Provide a detailed description of the Beneficial Use Project, including details about the generation of the material and specific information that details the implementation of the project at the destination site:

The non-soil (crushed concrete) material was generated during the demolition of the Former Quality Control Laboratory, conducted on-site between January and February 2015. The material was sampled in-situ, pre-demolition, in accordance with the January 2010 *Guidance for the Characterization of Concrete and Clean Material Certification for Recycling*, and meets the requirements of the *Fill Material Guidance for SRP Sites* (April 2015). Material meeting the Impact to Groundwater Standards was crushed on-site under a 90-day Air Permit.

The Beneficial Use Project reused approximately 690 yd³ of non-soil (crushed concrete) material at the Site of generation, preserving valuable landfill space and conserving natural resources by utilizing valuable existing materials which would otherwise enter the State of New Jersey's Solid Waste Stream.

Use of the recycled crushed concrete as a coarse aggregate was a sustainable way to reduce construction debris in landfills, while also utilizing the recycled crushed concrete on-site. The material was utilized on-site for filling and surface grading of the Former Quality Control Laboratory building footprint and five (5) subsurface structures removed concurrently with the building demolition. The subsurface structures included three (3) USTs (one 550-gallon, one 4,000-gallon, and one 10,000-gallon) and two (2) sumps (approximately 75 ft³ and 80 ft³ in volume). The subsurface structures, discovered abandoned-in-place beneath the building's concrete slab during the demolition activities, were removed from the subsurface and partially backfilled with surrounding site soils. Refer to Figure 3 (Material Destination Location Map) for the destinations of the beneficial use non-soil (crushed concrete) material.

(f) Quantity of Material for the Project (tons/year):

An approximate total of 690 cubic yards (1,205 tons), was determined to be below either the applicable Impact to Groundwater Soil Screening Levels (IGWSSL), the developed (Site Specific Impact to Groundwater Soil Remediation Standards (SSIGWSRS), or the default Leachate Criteria. As this quantity was below one or more of these criteria, it was used for beneficial use on-site as fill and grading material.

(g) Project Site Location Map (in-state use only)

The project Site, located at 835 West Avenue, in Port Reading, New Jersey, is bounded by Milos Way to the north, the Conrail Railroad spur and the Hess Corporation - Former Port Reading (HC-PR)

Refinery across Cliff Road to the east, a parking lot to the south, and by West Avenue and mixed residential and commercial properties across West Avenue to the west.

According to the United States Geological Survey Arthur Kill Quadrangle, New Jersey / New York 7.5 Minute Series Topographic Map, topography of the Quality Control Lab facility is generally level at an approximate elevation of 20-feet above Mean Sea Level (MSL). Refer to Figure 1 – U.S.G.S. Topographic Map (Arthur Kill New Jersey /New York Quadrangles).

(h) Project Site Plan Map (in-state use only)

The Former Quality Control Laboratory is illustrated on Figure 2 – Material Origin/Sample Location Map. The Figure depicts the footprint of the Former Quality Control Laboratory building (site origin) which was recently demolished. The approximate initial in-situ concrete sample locations (designated as QC-CRT-1 through QC-CRT-6), and the approximate secondary in-situ concrete delineation sample locations (designated as QC-CRT-8) are illustrated on the figure.

The destination of the beneficial use non-soil (crushed concrete) material is illustrated on Figure 3 – Material Destination Location Map. The non-soil (crushed concrete) material was used for the filling and surface grading of the Former Quality Control Laboratory building footprint and the previously removed subsurface structures.

Figure 4 (Shallow Groundwater Contour Map) illustrates the groundwater contours across the Site and in the vicinity of the property.

(i) Material Origin Site Location Map (in-state use only)

See Section (h) above.

7. MATERIAL DESCRIPTION:

(a) Describe the Proposed Material's Characteristics:

The on-site beneficial use material is concrete. Concrete is a composite material composed mainly of water, aggregate, and cement. Additives and reinforcements are often included in the mixture to achieve the desired physical properties of the finished material. When these ingredients are mixed together, they form a fluid mass that is easily molded into shape. Over time, the cement forms a hard matrix which binds the rest of the ingredients together into a durable stone-like material with many uses. The on-site concrete material was generated from the demolition of the Former Quality Control Laboratory concrete building walls and foundation (slab on grade). During demolition, the concrete was segregated from support features (i.e., steel beams, rebar).

Use of the recycled crushed concrete as a coarse aggregate was a sustainable way to reduce construction debris in landfills, while also utilizing the recycled crushed concrete on-site. The material for beneficial use was utilized on-site for filling and surface grading of the Former Quality Control Laboratory building footprint and five (5) subsurface structures removed concurrently with the building demolition. The subsurface structures included three (3) USTs (one 550-gallon, one 4,000-gallon, and one 10,000-gallon) and two (2) sumps (approximately 75 ft³ and 80 ft³ in volume). The subsurface structures, discovered abandoned-in-place beneath the building's concrete slab during the demolition activities, were removed from the subsurface and partially backfilled with surrounding

site soils. Refer to Figure 3 (Material Destination Location Map) for the destinations for the beneficial use non-soil (crushed concrete) material.

- (b) Has the material been previously classified as a solid waste pursuant to N.J.A.C. 7:26G-5? Yes ____ No X If yes, provide a copy of the waste classification documentation letter or other documentation.
- (c) Describe the material's known or suspected naturally-occurring radionuclide material (NORM); any other radiological characteristics resulting in the material having radioactivity above any background level or which could pose a health or environmental concern under any circumstance; and/or which would cause the material to be regulated in any manner for a radioactive characteristic by any State or Federal agency:

Radioactive materials were never known or suspected to have been utilized on-site. Therefore, no radionuclide analysis was conducted.

Is the material regulated pursuant to the Atomic Energy Act or any regulations for radioactive materials administered by the Nuclear Regulatory Commission ("NRC") or other agencies, is classified as technologically enhanced naturally-occurring radionuclide material (TENORM) which is ID 27 Dry Industrial Solid Waste in New Jersey, or contains any radionuclide over the levels established in the "Soil Remediation Standards for Radioactive Materials" at N.J.A.C. 7:28-12, describe:

The non-soil (crushed concrete) material is not regulated pursuant to the Atomic Energy Act.

- (d) Provide a Sampling Plan for the Proposed Material

Is a Sampling Location Map Included? Yes X No ____

Material sampling and analytical analysis of the non-soil (crushed concrete) was conducted in accordance with the *Guidance for Characterization of Concrete and Clean Material Certification for Recycling* (January 2010). Concrete building materials of the Former Quality Control Laboratory building including the concrete foundation (slab on grade), exterior concrete walls, and interior concrete walls were sampled in order to characterize the non-soil (concrete) material. During the initial assessment, a total of six (6) concrete chip samples were collected in-situ, pre-demolition. The concrete chip samples were collected no deeper than one inch below the structure's surface (0.25 inch below surface for concrete slab concrete chip samples) using a handheld hammer drill with a steel chisel hammer drill bit.

The sample locations were biased toward visible staining and indications of potential impact, if present. The sampling frequency was determined by each distinct area of proposed demolition and/or structure type (i.e., foundation, wall etc.). Each sample represented approximately 115 cubic yards (yds³) of material for a total of 690 yds³ (1,205 tons) of non-soil (crushed concrete). Concrete chip samples were collected from the exterior and interior sections of the walls, one collected from the older (circa 1963) concrete slab, and one collected from the newer (circa 1972) portion of the concrete slab. Refer to Figure 2 (Material Origin/ Sample Location Site Map) for the Demolition Areas and Concrete Sample Locations.

- (e) Provide Material Testing Documentation (include TAL/TCL and Priority Pollutant + 40 scans unless approved by the Department in advance) (in-state use only, unless required by out-of-state user or regulatory agency).

Samples were submitted for analysis of the following parameters: the United States Environmental Protection Agency's (USEPA) Polychlorinated Biphenyls (PCBs), Polycyclic Aromatic Hydrocarbons (PAHs), Target Analyte List/ Target Compound List plus 30 (TAL/ TCL + 30), Toxicity Characteristic Leaching Procedure (TCLP), and Extractable Petroleum Hydrocarbons (EPH) per the January 2010 *Guidance for Characterization of Concrete and Clean Material Certification for Recycling*. No samples were submitted for Dioxins/Furans or Radionuclides analysis as there is no known or suspected use of these constituents on the Site. Refer to Table 2 (Analytical Data Summary Table) for a summary of analytical results. The complete analytical data package is provided in Attachment 1.

- (f) Is Dioxin/Furan Analysis per USEPA Method 1613B or the latest Department-approved method included?

Yes___ No X If No, explain:

Dioxin/Furan materials were never known or suspected to have been utilized on-site. Therefore, no analysis of these constituents was conducted.

- (g) What are the Monitoring Levels for Proposed Use, if any? (in-state use only)

The material was compared to the Residential Direct Contact Soil Remediation Standards (RDCSRS) and the Non-Residential Direct Contact Soil Remediation Standards (NRDCSRS) per the January 2010 *Guidance for the Characterization of Concrete and Clean Material Certification for Recycling*. Additionally, pursuant to the April 2015 *Fill Material Guidance for SRP Sites*, the analytical results were compared to the default Impact to Groundwater Soil Standard Level (IGWSSL). When material was identified to be above the IGWSSL, but below RDCSRS and NRDCSRS, Site-Specific Impact to Ground Water Remediation Standards were calculated utilizing the NJDEP guidance for *the Development of Site-Specific Impact to Ground Water Soil Remediation Standards* (SSIGWSRS) using the Synthetic Precipitation Leaching Procedure (SPLP).

Refer to Table 2 (Analytical Data Summary Table) for a summary of analytical results. The complete analytical data packages are provided in Attachment 1.

Concrete Sample Analytical Analysis Evaluation:

As per the *Guidance for Characterization of Concrete and Clean Material Certification for Recycling*, analytical results were compared to the RDCSRS and NRDCSRS.

As per the *Fill Material Guidance for SRP Sites*, dated April 2015, material identified below the RDCSRS and NRDCSRS was compared to the default IGWSSL. When material was identified above the default IGWSSL, but below the RDCSRS and NRDCSRS, a SSIGWSRS was developed in accordance with the SPLP.

As per the *Fill Material Guidance for SRP Sites* Section 4.6.1 – Donor Material Below IGW Levels of Concern:

*If the contaminant levels in the donor material are **below** the greater of the default impact to ground water (IGW) screening levels or the AOC-specific IGW Soil Remediation Standard (SRS) values at the receiving site (as determined by Synthetic Precipitation and Leachate Procedure (SPLP) results on the donor material), then no further IGW evaluation is needed of the donor material. The material may be used as alternative fill.*

Approximately 690 yds³ (1,205 tons) of non-soil (crushed concrete) was determined to be below the applicable default IGWSSL, SSIGWSRS, or default Leachate Criterion provided in the NJDEP November 2013 *Guidance Document for the Development of Site-Specific Impact to Ground Water Soil Remediation Standards Using the Synthetic Precipitation Leaching Procedure*, and therefore, was used onsite as alternative fill. The analytical data is provided in Attachment 1 and summarized in Table 1.

The following is a summary of concrete chip analytical results:

1. Two sample locations (QC-CRT-3 and QC-CRT-5), collected from the surface of the building's concrete slab, were reported above either the RDCSRS or the NRDCSRS for bis(2-ethylhexyl)phthalate).
 - a. Both of these samples were collected from the surface of the building's concrete slab (0.0-0.25 inches). Additional samples were collected via concrete coring at various depths from locations QC-CRT-3 and QC-CRT-8 (adjacent to QC-CRT-5). Results indicated that bis(2ethylhexyl)phthalate is only detected above the RDCSRS or NRDCSRS in the top 0.25 inch of the slab, and is likely attributable to the tile floor installed on the slab and/or a sealant applied to the slab. Material sampled at depths below 0.25 inch reported bis(2-ethylhexyl)phthalate below the NJDEP default IGWSSL, the RDCSRS, and the NRDCSRS. As a result, the top 0.25 inch of material did not qualify for onsite reuse and was segregated by concrete scarification (grinding) and disposed of offsite as Construction and Demolition Debris (ID010).
2. Three samples (QC-CRT-1, QC-CRT-2, and QC-CRT-4) were reported above the applicable IGWSSL for mercury and four samples (QC-CRT-1, QC-CRT-2, QC-CRT-4, and QC-CRT-6) were reported above the IGWSSL for beryllium. As per the April 2015 *Fill Material Guidance for SRP Sites*, SSIGWSRSs were calculated for the compounds via the SPLP.
 - a. The SPLP Site Specific IGWSRS for mercury was calculated from confirmation samples QC-CRT-1, QC-CRT-2, and QC-CRT-4 collected on December 4, 2014. The SSIGWSRS for mercury was calculated as 14.2 milligrams per kilogram (mg/kg), greater than any detected concentration in building concrete. Therefore, concentrations of mercury detected in the concrete chip samples QC-CRT-1, QC-CRT-2, and QC-CRT-4 met the requirements for onsite reuse in accordance with Section 4.6.2 of the April 2015 *Fill Material Guidance for SRP Sites*, which states the SPLP results are evaluated as follows:

“If SPLP results indicate no potential impact to ground water using the Departments SPLP guidance for IGW, then the IGW evaluation is complete and the donor material can be used as alternative fill. “
 - b. The SPLP Site Specific IGWSRS for beryllium was calculated from confirmation samples QC-CRT-1, QC-CRT-2, QC-CRT-4, and QC-CRT-6 collected on December 4, 2014. The beryllium concentrations detected within the confirmatory samples were lower than the initial

concentrations detected, resulting in a lower concentration screening level calculated for the beryllium SSIGWSRS (2.2 mg/kg). In all four confirmatory beryllium samples, the coordinating SPLP Leachate analysis results were ND. According to Section 4.6.2 of the April 2015 *Fill Material Guidance for SRP Sites*, the SPLP results are to be evaluated as follows:

“If SPLP results indicate no potential impact to ground water using the Departments SPLP guidance for IGW, then the IGW evaluation is complete and the donor material can be used as alternative fill. “

Therefore, in accordance with the April 2015 *Fill Guidance for SRP Sites* guidance, the concrete was appropriate for use. This interpretation has been confirmed with Paul Sanders and David Barskey, the respective NJDEP SRP website contacts for *Soil Standards - Impact to Groundwater* and *Fill Material Guidance*.

3. Four samples (QC-CRT-1, QC-CRT-2, QC-CRT-4, and QC-CRT-6) were detected above the default IGWSSL for aluminum and manganese. However, according to Section 4.6.2 of the April 2015 *Fill Material Guidance for SRP Sites*, exceedances of IGW default criteria for metals that only have secondary groundwater quality standards do not need SPLP testing and such exceedances do not apply to the impact to groundwater evaluation of the donor material.
4. Methyl acetate was detected above the IGWSSL in the September 18, 2014 sample QC-CRT-4. A replicate sample was collected on December 4, 2014, from the location immediately adjacent to QC-CT-4, the results of which reported methyl acetate as Non Detect. Therefore, the detections are considered de minimus and did not affect use of the material as fill.

In conclusion, in accordance with the Beneficial Use regulations (N.J.A.C. 7:26-1.7(g)(5)(ix)), the materials for beneficial use, non-soil (crushed concrete), have been shown to meet the same general physical character and chemical composition that is consistently equivalent to or exceeds the character and composition of the intentionally-manufactured product that it has replaced (coarse aggregate). Based on analytical results, the material does not present a greater risk to human health or the environment than the use of the product or raw material it has replaced.

(h) Provide the Monitoring QA/QC Procedures (in-state use only):

Surface areas of the building's concrete slab, believed to be associated with the tile mastic, were determined not to meet the applicable criteria (based on sample analysis and result evaluations). Therefore, the top one quarter inch of the concrete slab was removed from the concrete slab by concrete scarification (grinding) and was disposed of offsite as Construction and Demolition Debris (ID010).

8. ANALYTICAL PACKAGE FOR CONTAMINANT PROFILE TESTING.

Included Yes X No If No, Why not? (in-state use only)

The analytical analysis was conducted by Accutest Laboratories (NJ Certified Laboratory # 12129) of New Jersey. The complete analytical data packages are provided in Attachment 1.

9. DESCRIBE ANY TREATMENT PERFORMED ON THE MATERIAL PRIOR TO THE REUSE OF THE MATERIAL (in-state use only):

The non-soil (crushed concrete) material was produced during the demolition of the Hess Corporation Former Quality Control Laboratory Building located at 835 West Ave, Port Reading, New Jersey. The material included exterior and interior concrete cinder block walls and the concrete slab of the building. The material was utilized as fill and grading material in the area of the Former Quality Control Laboratory building.

Surface areas of the building's concrete slab, believed to be associated with tile mastic, were determined not to meet the applicable criteria for beneficial use (based on sample analysis and result evaluations). Therefore, the top one quarter inch of the concrete slab was removed from the concrete slab by concrete scarification (grinding) and was disposed of offsite as Construction and Demolition Debris (ID010).

10. DESCRIBE THE OPERATIONAL CONTROLS TO BE TAKEN DURING THE HANDLING AND TRANSPORTATION OF THE MATERIAL TO MINIMIZE ENVIRONMENTAL AND HUMAN IMPACTS.

The non-soil (crushed concrete) material is considered non-hazardous. All personnel working on the Site had applicable training, including a 40-hour OSHA HAZWOPER Certificate. The material will remain on-site and was utilized as fill material for on-site subsurface structures.

11. PROVIDE A DETAILED PROJECT SCHEDULE FOR THE INITIATION AND COMPLETION OF THE BENEFICIAL USE PROJECT.

Asbestos/universal wastes were removed from the Former Quality Control Laboratory building in September 2014. The demolition of the Former Quality Control Laboratory building was conducted January through February 2015.

12. INCLUDE A LETTER TO THE SOLID AND HAZARDOUS WASTE MANAGEMENT PROGRAM FROM THE RECEIVING FACILITY STATING THE FACILITY'S AGREEMENT TO ACCEPT THE SPECIFIED AMOUNT OF MATERIAL AND SPECIFYING THE INTENT TO BENEFICIALLY USE IT.

Refer to Attachment 2

13. FOR OUT-OF-STATE USE SHIPMENTS, INCLUDE A LETTER FROM THE APPROPRIATE REGULATORY AGENCY OF THE STATE WHERE THE REUSE FACILITY IS LOCATED, VERIFYING THAT THE FACILITY IS OPERATING IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS AND CAN LAWFULLY ACCEPT THE MATERIAL FOR THE DECLARED USE OR REUSE PURPOSE, AND A COPY OF THE CURRENT FACILITY PERMIT THAT VERIFIES THE MATERIAL CAN BE ACCEPTED IN ACCORDANCE WITH THE FACILITY'S OPERATING PERMIT.

N/A

14. FEES:

- (a) Submit the following appropriate beneficial use review fees as required by N.J.A.C. 7:26-4.3(i) 1.

(1)	In-State Use (no sampling)	\$534.00	<input type="checkbox"/> Included
(2)	In-State Use (sampling result)	\$962.00	<input checked="" type="checkbox"/> Included
(3)	Out-of-State Use (no sampling)	\$321.00	<input type="checkbox"/> Included
(4)	Out-of-State Use (sampling results)	\$962.00	<input type="checkbox"/> Included

- (a) Be advised that when the Department's work effort exceeds the normal work hours included in the base fees at N.J.A.C. 7:4.3(i) then fees on a time/material basis will also be assessed for work conducted by the Department for CAO-related work per N.J.A.C. 7:26-4.3(i)2. Fees per N.J.A.C. 7:26(i)2 will be assessed both for applications for which CAOs are issued and for applications that are ultimately rejected by the Department or withdrawn by the applicant.

The filing of this application form including the certification below is statement of the applicant's agreement to pay the fees associated with the Department's work effort during the project including all reasonable fees per 14.b above.

Note: The Department may request additional information or an amended application at any time due to modified application requirements, project-specific requirements, or other reasons. Filing an application for a CAO a beneficial use project does not convey any authority for any person to transport, move or use any material unless a CAO is issued in writing from the Department for the specific material and use.

CERTIFICATION STATEMENT

(Required: principal executive officer, general partner or proprietor, ranking elected official)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment. I understand this form to be an unmodified version of the application and that, in addition to criminal penalties, I may be liable for a civil administrative penalty pursuant to N.J.A.C. 7:26 and that submitting false, inaccurate or incomplete information may be grounds for denial, revocation or termination of any solid waste facility permit, license or other operating authority for which I may be seeking approval or now hold.

I am aware that for out-of-State and in-State uses, the Department will share all information, such as material history, enforcement issues, analytical data and related information concerning the material with the receiving facility, related parties of interest and relevant State regulatory agencies during the application review and confirmation process.

Type/Print Name: [John Schenkewitz](#) Title: [Manager, Remediation](#)

Company: [Hess Corporation](#)

Address/City/State/Zip Code: [One Hess Plaza, Woodbridge, NJ](#)

Signature: _____ Date: _____

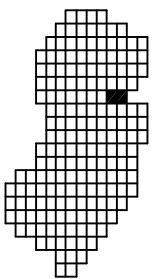
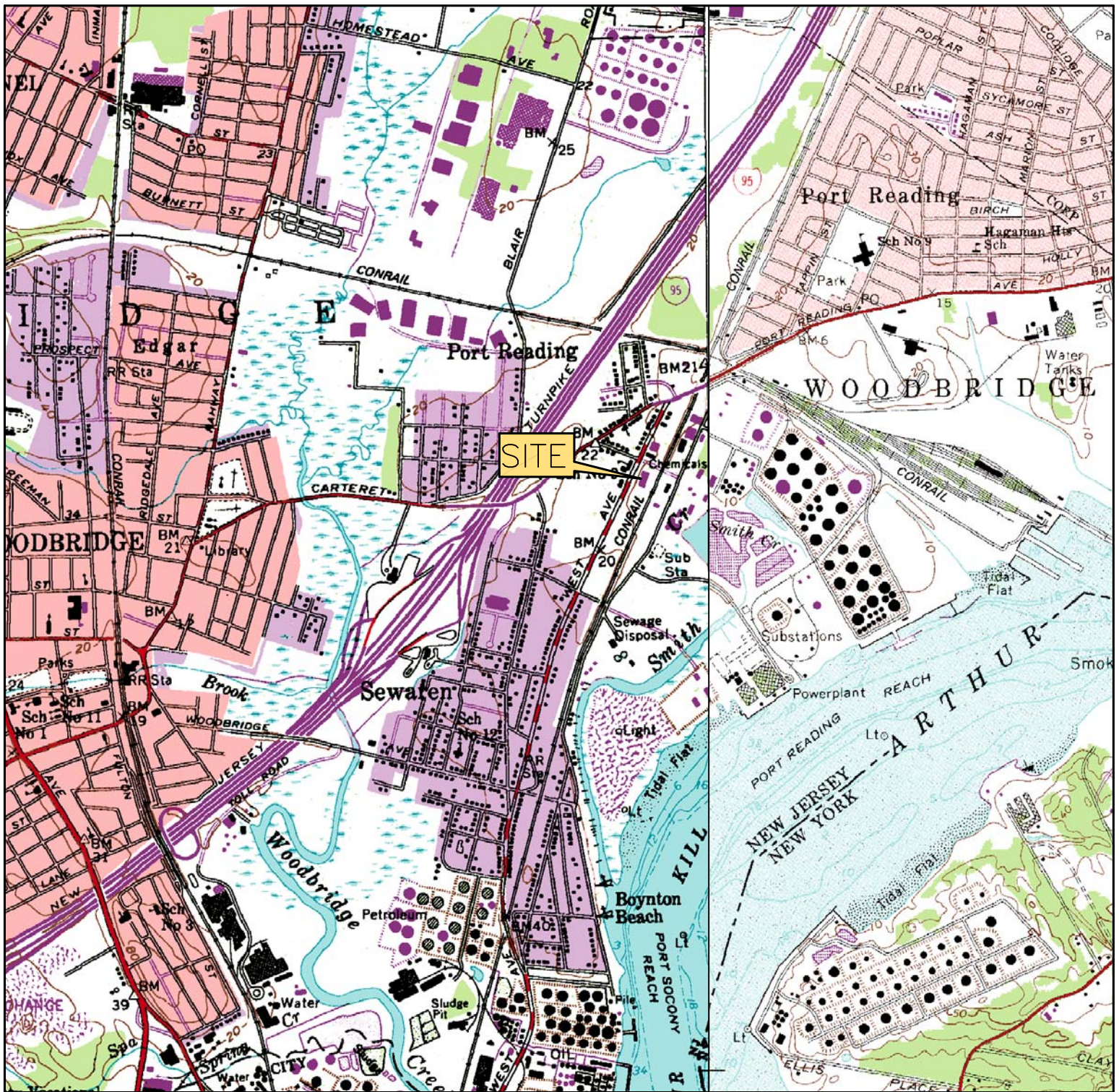
Sworn to and Subscribed Before Me

on this _____ day of _____ 20____

Notary

Figures

1. USGS Topographic Map - Arthur Kill New Jersey/New York
2. Material Origin/Sample Location Map
3. Material Destination Location Map
4. Groundwater Contour Map



QUADRANGLE LOCATION:
PERTH AMBOY/ARTHUR KILL, NEW JERSEY

SOURCE: USGS 7.5 MINUTE SERIES
REVISED/INSPECTED: 1981
CONTOUR INTERVAL: 10 FEET

0 2,000 6,000
1,000 4,000
FEET

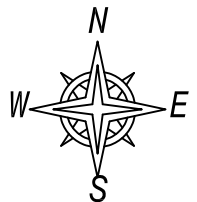


FIGURE #

1

U.S.G.S. TOPOGRAPHIC MAP

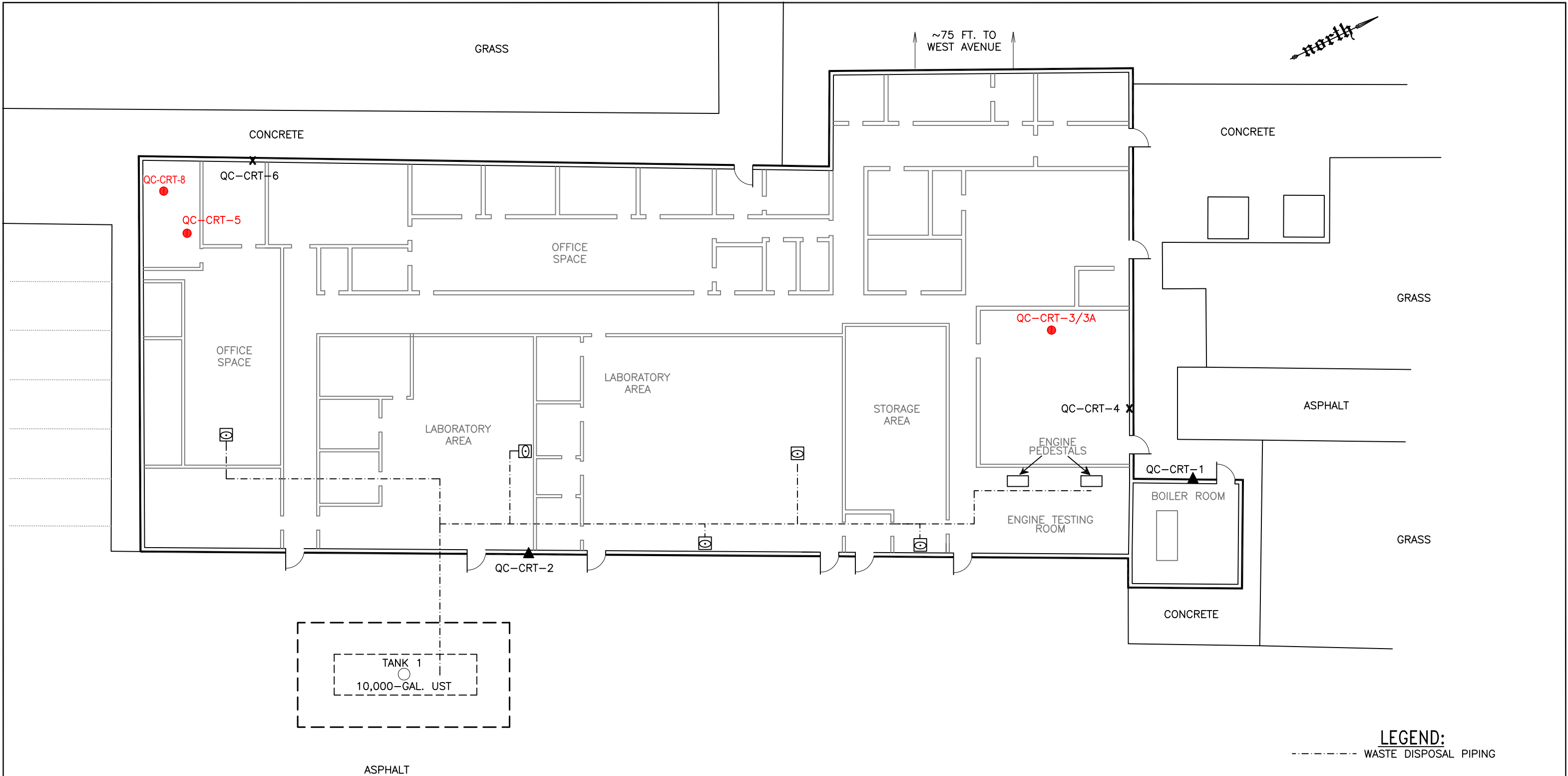
HESS CORPORATION — QC LABORATORY
835 WEST AVENUE
PORT READING, NEW JERSEY

DRAWN BY: KN

REVISION DATE:
6/5/2014

EnviroTrac
ENVIRONMENTAL SERVICES

6 TERRI LANE, SUITE #350, BURLINGTON, NJ 08016
PHONE: (609)387-5553 FAX: (609)387-5533



- FORMER WASTE DISPOSAL SINK
- INTERIOR FLOOR CONCRETE SAMPLE
- EXTERIOR WALL CONCRETE SAMPLE
- INTERIOR WALL CONCRETE SAMPLE
- INDICATES AN EXCEEDANCE OF RESIDENTIAL/NON RESIDENTIAL SOIL DIRECT CONTACT SOIL CRITERIA

FIGURE #
2

FORMER HESS QC LABORATORY
835 WEST AVENUE
PORT READING, NEW JERSEY



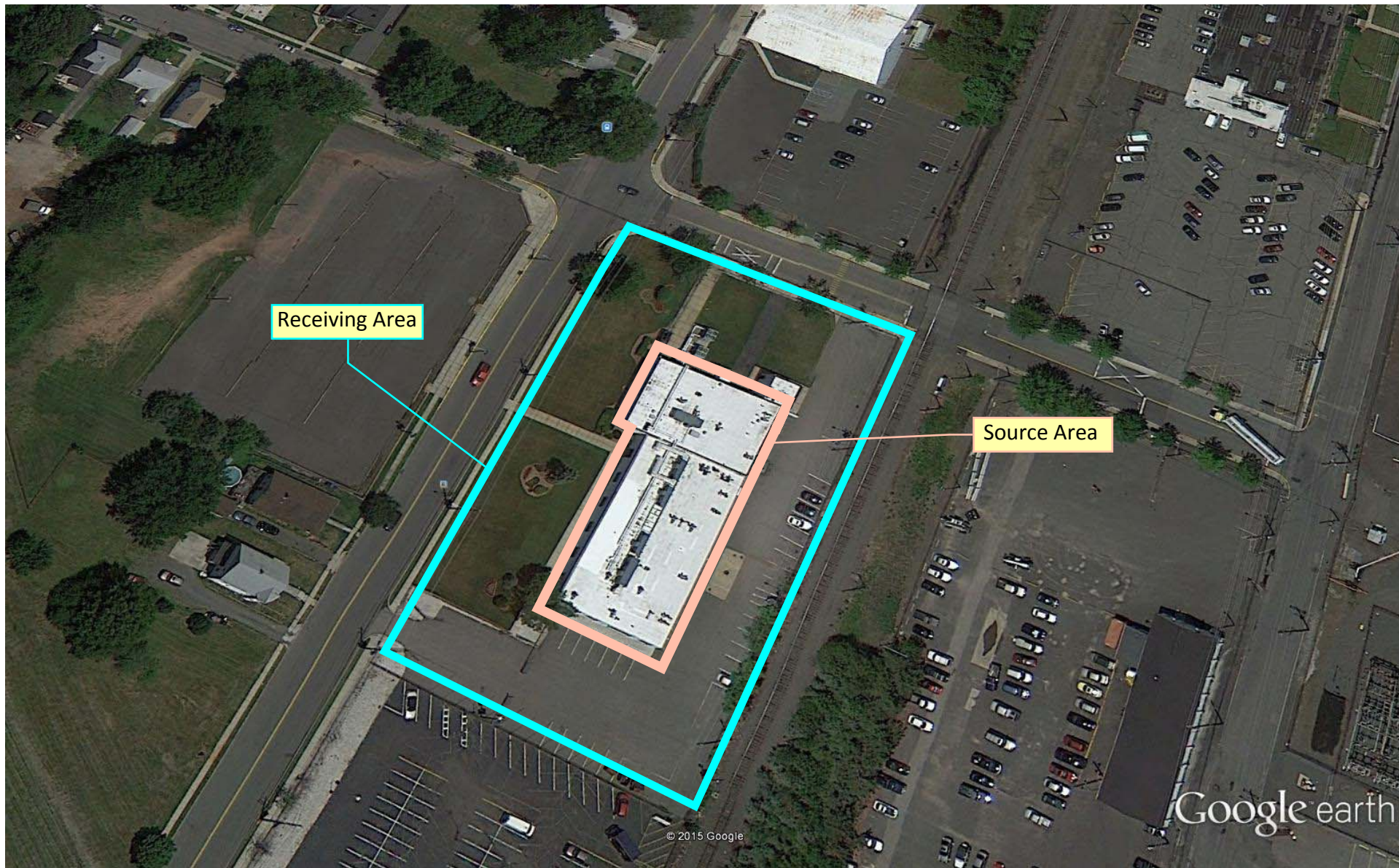
Material Origin and Sample Location Map

DRAWN BY: CM

REVISION DATE: 4/16/15

0 10 20
SCALE IN FEET

EnviroTrac
ENVIRONMENTAL SERVICES
6 TERRI LANE, SUITE 350. BURLINGTON NJ 08016
PHONE: (609)387-5553 FAX: (609)387-5553

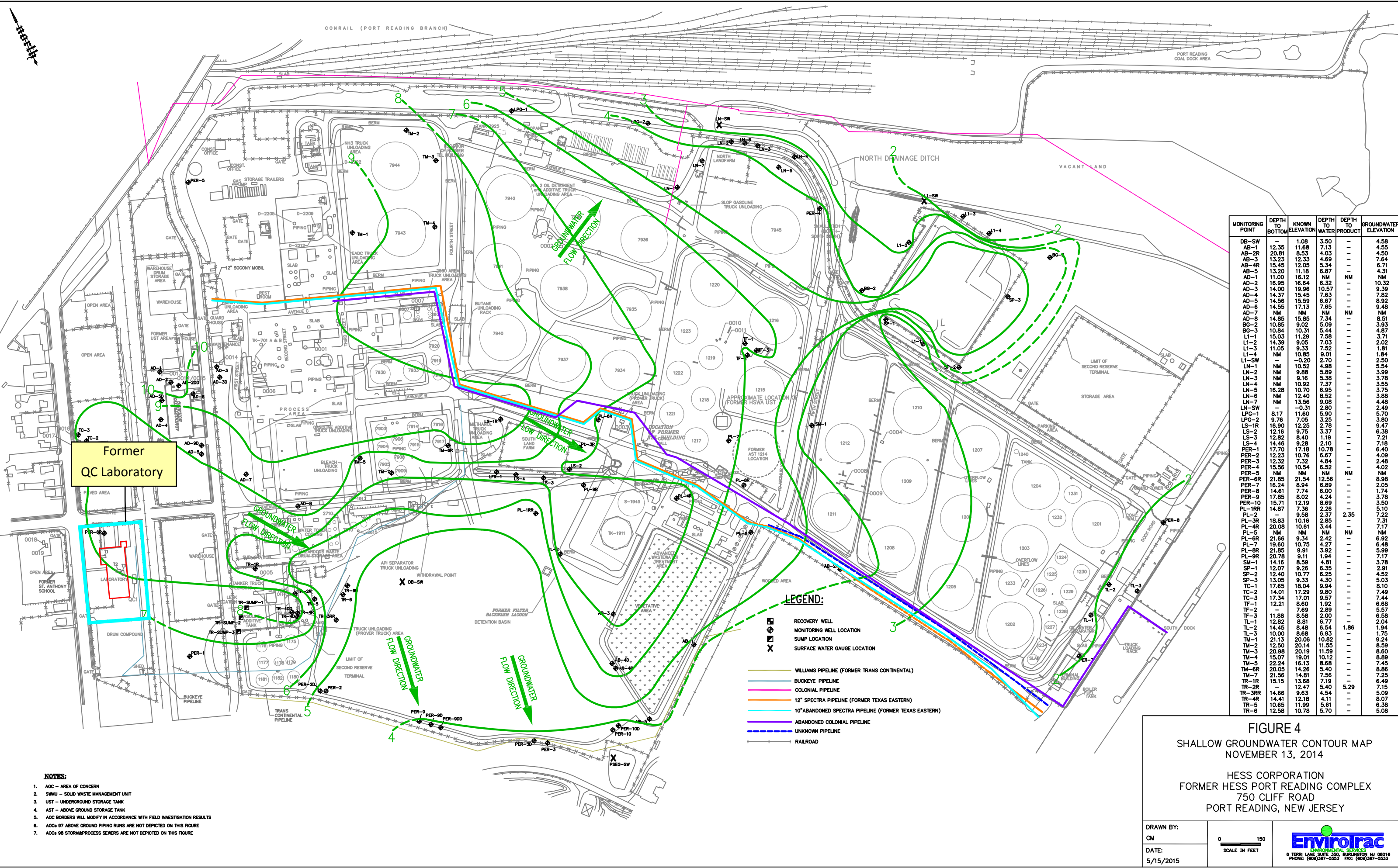


Google earth

feet
meters



Figure 3 - Material Destination Location Map
Hess Corporation - Former Quality Control Laboratory
835 West Ave, Port Reading, Middlesex County, New Jersey



MONITORING POINT	DEPTH TO BOTTOM	KNOWN ELEVATION	DEPTH TO WATER	DEPTH TO PRODUCT	GROUNDWATER ELEVATION
DB-SW	-	1.08	3.50	-	4.58
AB-1	12.35	11.68	7.13	-	4.55
AB-2R	20.81	8.53	4.03	-	4.50
AB-3	13.23	12.33	4.69	-	7.84
AB-4R	15.45	12.05	5.34	-	6.71
AB-5	13.20	11.18	6.87	-	4.31
AD-1	11.00	16.12	NM	NM	NM
AD-2	16.95	16.64	6.32	-	10.32
AD-3	14.00	19.96	10.57	-	9.39
AD-4	14.37	15.45	7.63	-	7.82
AD-5	14.56	15.59	6.67	-	8.92
AD-6	14.55	17.13	7.65	-	9.48
AD-7	NM	NM	NM	NM	NM
AD-8	14.85	15.85	7.34	-	8.51
BC-2	10.85	9.02	5.09	-	3.93
BC-3	10.84	10.31	5.44	-	4.87
L1-1	15.03	11.29	7.58	-	3.71
L1-2	14.39	9.05	7.03	-	2.02
L1-3	11.05	9.33	7.52	-	1.84
L1-4	NM	10.85	9.01	-	1.81
L1-SW	-0.20	2.70	2.50	-	2.50
LN-1	NM	10.52	4.98	-	5.54
LN-2	NM	9.88	5.89	-	3.99
LN-3	NM	9.16	5.38	-	3.78
LN-4	NM	10.92	7.37	-	3.55
LN-5	16.28	10.70	6.95	-	3.78
LN-6	NM	12.40	8.52	-	3.88
LN-7	NM	13.56	9.08	-	4.48
LN-SW	-	-0.31	2.80	-	2.49
LPG-1	8.17	11.60	5.90	-	5.70
LPG-2	9.76	7.05	3.25	-	3.80
LS-1R	16.90	12.25	2.78	-	9.47
LS-2	12.16	9.75	3.37	-	6.38
LS-3	12.82	8.40	1.19	-	7.21
LS-4	14.46	9.28	2.10	-	7.18
PER-1	17.70	17.18	6.78	-	6.40
PER-2	12.23	10.76	6.67	-	4.09
PER-3	12.32	7.32	4.64	-	2.48
PER-4	15.56	10.54	6.52	-	4.02
PER-5	NM	NM	NM	NM	NM
PER-6R	21.85	21.54	12.56	-	6.98
PER-7	16.24	8.94	6.80	-	2.05
PER-8	14.61	7.74	6.00	-	1.74
PER-9	17.85	8.02	4.24	-	3.78
PER-10	15.71	12.19	8.69	-	3.50
PL-1RR	14.87	7.36	2.26	-	5.10
PL-2	9.58	2.37	2.35	-	7.22
PL-3R	18.83	10.16	2.85	-	7.31
PL-4R	20.08	10.61	3.44	-	7.17
PL-5	NM	NM	NM	NM	NM
PL-6R	21.66	9.34	2.42	-	6.92
PL-7	19.60	10.75	4.27	-	6.48
PL-8R	21.85	9.91	3.92	-	5.99
PL-9R	20.78	9.11	1.94	-	7.17
SM-1	14.16	8.59	4.81	-	3.78
SP-1	12.07	9.26	6.35	-	2.91
SP-2	12.40	10.77	6.25	-	4.52
SP-3	9.33	4.30	-	-	5.03
TC-1	17.65	18.04	9.94	-	8.10
TC-2	14.01	17.29	9.80	-	7.49
TC-3	17.34	17.01	9.57	-	7.44
TF-1	12.21	8.60	1.92	-	6.88
TF-2	7.69	2.89	-	-	5.57
TF-3	11.88	8.58	2.00	-	6.58
TL-1	12.82	8.81	6.77	-	2.04
TL-2	14.45	8.48	6.54	1.86	1.94
TL-3	10.00	8.68	6.93	-	1.75
TM-1	21.13	20.08	10.82	-	9.24
TM-2	12.50	20.14	11.55	-	8.59
TM-3	20.98	20.19	11.59	-	8.60
TM-4	15.07	19.01	10.12	-	8.89
TM-5	22.24	16.13	8.68	-	7.45
TM-6R	20.05	14.26	5.40	-	8.56
TM-7	21.56	14.81	7.56	-	7.25
TR-1R	15.15	13.68	7.19	-	6.49
TR-2R	-	12.47	5.40	5.29	7.15
TR-3RR	14.66	9.63	4.54	-	5.09
TR-4R	14.41	12.18	4.11	-	8.07
TR-5	10.85	11.99	5.61	-	6.38
TR-6	12.58	10.78	5.70	-	5.08

FIGURE 4
SHALLOW GROUNDWATER CONTOUR MAP
NOVEMBER 13, 2014

HESS CORPORATION
FORMER HESS PORT READING COMPLEX
750 CLIFF ROAD
PORT READING, NEW JERSEY

- NOTES:
1. AOC - AREA OF CONCERN
 2. SNMU - SOLID WASTE MANAGEMENT UNIT
 3. UST - UNDERGROUND STORAGE TANK
 4. AST - ABOVE GROUND STORAGE TANK
 5. AOC BORDERS WILL MODIFY IN ACCORDANCE WITH FIELD INVESTIGATION RESULTS
 6. AOCs 97 ABOVE GROUND PIPING RUNS ARE NOT DEPICTED ON THIS FIGURE
 7. AOCs 98 STORM/PROCESS SEWERS ARE NOT DEPICTED ON THIS FIGURE

Client Sample ID:			NJ Non-Residential Direct Contact Soil Remediation Criteria (NJAC 7:26D 06/08)	NJ Residential Direct Contact Soil Remediation Criteria (NJAC 7:26D 06/08)	NJ Default Impact to Groundwater Soil Screening Levels (NJAC 7:26D 11/13)	Calculated Site Specific Impact to Groundwater Standard via NJDEP SPLP Spreadsheet	QC-CRT-1	QC-CRT-1	QC-CRT-2	QC-CRT-2	QC-CRT-2	QC-CRT-3	QC-CRT-3A	QC-CRT-3A	QC-CRT-3A	QC-CRT-4	QC-CRT-4	QC-CRT-5	QC-CRT-6	QC-CRT-6	QC-CRT-8	QC-CRT-8	QC-CRT-8	
Lab Sample ID:	CAS#	Units					JB77165-1	JB83210-1	JB77165-2	JB77165-7	JB83210-2	JB77165-3	JB79579-1	JB79579-2	JB79579-3	JB77165-4	JB83210-3	JB77165-5	JB77165-6	JB83210-4	JB79579-4	JB79579-6	JB79579-5	
Date Sampled:							9/18/2014	12/4/2014	9/18/2014	9/29/2014	12/4/2014	9/18/2014	10/16/2014	10/16/2014	10/16/2014	9/18/2014	12/4/2014	9/18/2014	12/4/2014	10/16/2014	10/16/2014	10/16/2014	10/16/2014	
General Location							Exterior Wall	Exterior Wall	Exterior Wall	Exterior Wall	Exterior Wall	Interior Floor With Mastic	Interior Floor With Mastic	Interior Floor With Mastic	Interior Floor With Mastic	Interior Wall	Interior Wall	Interior Floor With Mastic	Interior Wall	Interior Wall	Interior Floor With Mastic	Interior Floor With Mastic	Interior Floor With Mastic	
Depth							Surface	Surface	Surface	Surface	Surface	Surface	Mastic	Surface	2" - 4"	Surface	Surface	Surface	Surface	Surface	Surface (washed)	Mastic	2" - 4"	
NJDEP Extractable Petroleum Hydrocarbons																								
EPH (C9-C28)		mg/kg	-	-	-	-	61.3	-	-	-	-	967	-	-	-	323	-	96.3	98.8	-	-	-	-	
EPH (>C28-C40)		mg/kg	-	-	-	-	70.1	-	85.5	-	-	1,170	-	-	-	69.3	-	50.4	281	-	-	-	-	
Total EPH (C9-C40)		mg/kg	54,000	5,100	-	-	131	-	199	-	-	2,130	-	-	-	392	-	147	380	-	-	-	-	
Volatile Organic Compounds																								
Acetone	67-64-1	mg/kg	NA	70,000	19	-	0.0057 J	-	0.007 J	-	-	0.0299	-	-	-	1.09	-	0.021	0.0125	-	-	-	-	
Benzene	71-43-2	mg/kg	5	2	0.005	-	0.00020 J	-	ND (0.00059)	-	-	0.00026 J	-	-	-	ND (0.024)	-	ND (0.00045)	ND (0.00049)	-	-	-	-	
2-Butanone (MEK)	78-93-3	mg/kg	44,000	3,100	0.9	-	ND (0.0096)	-	ND (0.012)	-	-	ND (0.0084)	-	-	-	ND (0.47)	-	0.011	ND (0.0097)	-	-	-	-	
Carbon disulfide	75-15-0	mg/kg	110,000	7,800	6	-	0.00064 J	-	0.00080 J	-	-	ND (0.0017)	-	-	-	ND (0.95)	-	ND (0.0018)	0.0013 J	-	-	-	-	
Ethylbenzene	100-41-4	mg/kg	110,000	7,800	13	-	ND (0.00096)	-	ND (0.0012)	-	-	ND (0.00084)	-	-	-	0.335	-	0	ND (0.00097)	-	-	-	-	
Isopropylbenzene	98-82-8	mg/kg	-	-	-	-	ND (0.0048)	-	ND (0.0059)	-	-	ND (0.0042)	-	-	-	3.7	-	0.00035 J	ND (0.0049)	-	-	-	-	
Methyl Acetate	79-20-9	mg/kg	NA	78,000	22	-	ND (0.0048)	-	ND (0.0059)	-	-	ND (0.0042)	-	-	-	922	ND (0.0012)	ND (0.0045)	ND (0.0049)	-	-	-	-	
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	-	-	-	-	ND (0.0048)	-	ND (0.0059)	-	-	ND (0.0042)	-	-	-	0.118 J	-	ND (0.0045)	ND (0.0049)	-	-	-	-	
Methylene chloride	75-09-2	mg/kg	97	34	0.01	-	0.0016 J	-	ND (0.0059)	-	-	ND (0.0042)	-	-	-	ND (0.24)	-	0.0017 J	0.0015 J	-	-	-	-	
Toluene	108-88-3	mg/kg	91,000	6,300	7	-	ND (0.0096)	-	ND (0.0012)	-	-	ND (0.0032 J	-	-	-	ND (0.047)	-	0.00028 J	0.00024 J	-	-	-	-	
m,p-Xylene		mg/kg	170,000	12,000	19	-	ND (0.0096)	-	ND (0.0012)	-	-	ND (0.00084)	-	-	-	3.53	-	0.0081	ND (0.97)	-	-	-	-	
o-Xylene	95-47-6	mg/kg	170,000	12,000	19	-	ND (0.0096)	-	ND (0.0012)	-	-	0.00019 J	-	-	-	9.06	-	0.0108	ND (0.97)	-	-	-	-	
Xylene (total)	1330-20-7	mg/kg	170,000	12,000	19	-	ND (0.0096)	-	0.00028 J	-	-	0.00044 J	-	-	-	12.6	-	0.0189	0.00042 J	-	-	-	-	
Total TIC, Volatile		mg/kg	-	-	100/500	-	0.0	-	0.0	-	-	0.0094 J (1)	-	-	-	150.8 J (15)	-	0.045 J (1)	0.0	-	-	-	-	
Semi-Volatile Organic Compounds																								
Phenol	108-95-2	mg/kg	210,000	18,000	8	-	ND (0.13)	-	ND (0.16)	-	-	ND (0.120)	-	-	-	ND (0.14)	-	0.324	ND (0.14)	-	-	-	-	
Acetophenone	98-86-2	mg/kg	5	2	3	-	1.06	-	1.1	-	-	0.0541 J	-	-	-	ND (0.34)	-	ND (0.17)	ND (0.36)	-	-	-	-	
Benzo(a)anthracene	56-55-3	mg/kg	2	0.6	0.8	-	ND (0.066)	-	ND (0.079)	-	-	0.0855	-	-	-	ND (0.068)	-	ND (0.033)	ND (0.072)	-	-	-	-	
Butyl benzyl phthalate	85-68-7	mg/kg	14,000	1,200	230	-	ND (0.13)	-	ND (0.16)	-	-	1.87	-	-	-	0.103 J	-	0.0635 J	ND (0.14)	-	-	-	-	
1,1'-Biphenyl	92-52-4	mg/kg	34,000	3,100	140	-	ND (0.13)	-	ND (0.16)	-	-	0.249	-	-	-	0.358	-	ND (0.066)	ND (0.14)	-	-	-	-	
Benzaldehyde	100-52-7	mg/kg	68,000	6,100	NA	-	0.0953 J	-	0.0765 J	-	-	ND (0.31)	-	-	-	ND (0.34)	-	ND (0.17)	ND (0.36)	-	-	-	-	
4-Chloroaniline	106-47-8	mg/kg	-	-	-	-	ND (0.33)	-	ND (0.4)	-	-	ND (0.31)	-	-	-	0.0864 J	-	ND (0.17)	ND (0.36)	-	-	-	-	
Caprolactam	105-60-2	mg/kg	340,000	31,000	12	-	ND (0.13)	-	ND (0.16)	-	-	0.102 J	-	-	-	0.326	-	ND (0.066)	ND (0.14)	-	-	-	-	
Chrysene	218-01-9	mg/kg	230	62	80	-	ND (0.066)	-	ND (0.079)	-	-	0.0811 J	-	-	-	ND (0.068)	-	ND (0.033)	0.0364 J	-	-	-	-	
Di-n-butyl phthalate	84-74-2	mg/kg	68,000	6,100	760	-	ND (0.13)	-	ND (0.16)	-	-	2.77	-	-	-	0.147	-	0.355	ND (0.14)	-	-	-	-	
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	140	35	1,200	-	0.404	-	0.475	-	-	343	1,590	257	0.0811	0.682	-	42.9	0.295	-	0.134	252	0.185	
Fluoranthene	206-44-0	mg/kg	24,000	2,300	1,300	-	ND (0.066)	-	ND (0.079)	-	-	0.0290 J	-	-	-	0.0903	-	ND (0.033)	0.0339 J	-	-	-	-	
2-Methylnaphthalene	91-57-6	mg/kg	2,400	230	8	-	ND (0.13)	-	ND (0.16)	-	-	0.0442 J	-	-	-	ND (0.14)	-	0.040 J	ND (0.14)	-	-	-	-	
Naphthalene	91-20-3	mg/kg	17	6	25	-	ND (0.066)	-	ND (0.079)	-	-	0.0817	-	-	-	0.226	-	0.31	ND (0.072)	-	-	-	-	
Phenanthrene	85-01-8	mg/kg	300,000	NA	NA	-	ND (0.066)	-	ND (0.079)	-	-	0.0538 J	-	-	-	0.2	-	0.0427	0.0409 J	-	-	-	-	
Pyrene	129-00-0	mg/kg	18,000	1,700	840	-	ND (0.066)	-	ND (0.079)	-	-	0.0291 J	-	-	-	0.0566 J	-	0.0147 J	0.031 J	-	-	-	-	
Total TIC, Semi-Volatile		mg/kg	-	-	100/500	-	18.240 J (25)	-	23.070 J (25)	-	-	46.52 J (25)	-	-	-	73.18 J (23)	-	17.84 J (22)	3.09 J (4)	-	-	-	-	
Total Alkanes		mg/kg	-	-	-	-	0.0	-	0.0	-	-	0.0	-	-	-	0.43 J	-	0.88 J	2.92 J	-	-	-	-	
Pesticides																								
4,4'-DDE	72-55-9	mg/kg	9	2	18	-	ND (0.00068)	-	ND (0.00082)	-	-	ND (0.00063)	-	-	-	0.0111 ^a	-	ND (0.00061)	ND (0.00072)	-	-	-	-	
Endrin	72-20-8	mg/kg	340	23	1	-	ND (0.00068)	-	ND (0.00082)	-	-	ND (0.00063)	-	-	-	ND (0.00065)	-	0.0021	ND (0.00072)	-	-	-	-	
Endrin ketone	53494-70-5	mg/kg	-	-	-	-	ND (0.00068)	-	ND (0.00082)	-	-	0.00099	-	-	-	ND (0.00065)	-	ND (0.00061)	ND (0.00072)	-	-	-	-	
Polychlorinated Biphenyls																								
Aroclor 1232	11141-16-5	mg/kg	1	0.2	0.2	-	ND (0.034)	-	ND (0.041)	-	-	ND (0.031)	-	-	-	ND (0.033)	-	0.0598	ND (0.036)	-	-	-	-	
Aroclor 1260	11096-82-5	mg/kg	1	0.2	0.2	-	ND (0.034)	-	ND (0.041)	-	-	ND (0.031)	-	-	-	ND (0.033)	-	0.2	ND (0.036)	-	-	-	-	
Aroclor 1268	11100-14-4	mg/kg	1	0.2	0.2	-	ND (0.034)	-	ND (0.041)	-	-	ND (0.031)	-	-	-	0.0742	-	ND (0.031)	ND (0.036)	-	-	-	-	
Aroclor 1262	37324-23-5	mg/kg	1	0.2	0.2	-	ND (0.034)	-	ND (0.041)	-	-	ND (0.031)	-	-	-	0.155	-	ND (0.031)	ND (0.036)	-	-	-	-	
Metal Compounds																								
Aluminum	7429-90-5	mg/kg	NA	78,000	6,000	-	21,500 ^b	-	-	24,200	-	4,500 ^b	-	-	-	23,500 ^c	-	5,980 ^b	19,800 ^b	-	-	-	-	
Arsenic	7440-38-2	mg/kg	19	19	19	-	1.6 ^b	-	-	ND (2.6)	-	1.2 ^b	-	-	-	2.6 ^b	-	1.5 ^b	1.5 ^b	-	-	-	-	
Barium	7440-39-3	mg/kg	59,000	16,000	2,100	-	213 ^b	-	-	278	-	36.8 ^b	-	-	-	477 ^c	-	21.5 ^b	192 ^b	-	-	-	-	
Beryllium	7440-41-7	mg/kg	140	16	0.7	2.2	2.6 ^b	2.0	-	2.8	2.2	0.44 ^b	-	-	-	2.2 ^c	1.7	ND (0.41) ^b	2.2 ^b	1.2	-	-	-	
Cadmium	7440-43-9	mg/kg	78	78	2	-	ND (0.38) ^b	-	-	ND (0.65)	-	ND (0.39) ^b	-	-	-	0.56 ^b	-	ND (0.41) ^b	ND (0.39) ^b	-	-	-	-	
Calcium	7440-70-2	mg/kg	-	-	-	-	127,000 ^b	-	-	133,000	-	70,900 ^b	-	-	-	177,000 ^b	-	43,300 ^b	126,000 ^b	-	-	-	-	
Chromium	7440-47-3	mg/kg	-	-	-	-	7.1 ^b	-	-	10.5	-	11.4 ^b	-	-	-	6.7 ^b	-	6.4 ^b	7.6 ^b	-	-	-	-	
Cobalt	7440-48-4	mg/kg	590	1,600	90	-	ND (4.8) ^b	-	-	ND (13) ^d	-	ND (4.8) ^b	-	-	-	ND (4.5) ^b	-	9.2 ^b	5.2 ^b	-	-	-	-	
Copper	7440-50-8	mg/kg	45,000	3,100	11,000	-	ND (2.4) ^b	-	-	ND (3.3)	-	5.2 ^b	-	-	-	6.4 ^b	-	53.7 ^b	7.9 ^b	-	-	-	-	
Iron	7439-89-6	mg/kg	-	-	-	-	2,080 ^b	-	-	2,880	-	4,250 ^b	-	-	-	3,780 ^c	-	15,100 ^b	2,310 ^b	-	-	-	-	

Table 1
Concrete Analysis Summary - TCLP
Quality Control Laboratory
Hess Corporation- Former Port Reading Complex
835 West Avenue
Port Reading, Middlesex County, New Jersey

Client Sample ID:		TCLP Maximum Contaminant	QC-CRT-1	QC-CRT-2	QC-CRT-3	QC-CRT-4	QC-CRT-5	QC-CRT-6
Lab Sample ID:		Concentrations	JB77165-1A	JB77165-2A	JB77165-3A	JB77165-4A	JB77165-5A	JB77165-6A
Date Sampled:		(40 CFR 261	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014
Matrix:		6/96)	Solid	Solid	Solid	Solid	Solid	Solid
TCLP Metals Analysis								
Arsenic	mg/l	5	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Barium	mg/l	100	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Cadmium	mg/l	1	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)
Chromium	mg/l	5	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
Lead	mg/l	5	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Mercury	mg/l	0.2	ND (0.00020)	ND (0.00020)	ND (0.00020)	0.0013	ND (0.00020)	ND (0.00020)
Selenium	mg/l	1	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Silver	mg/l	5	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)

Footnotes:

^a More than 40 % RPD for detected concentrations between the two GC columns.

^b Analysis performed at Accutest Laboratories, Marlborough, MA.

^c Elevated RL due to dilution required for matrix interference. Analysis performed at Accutest Laboratories, Marlborough, MA.

^d Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

^e Elevated detection limit due to dilution required for high interfering element.

^f Elevated RL due to dilution required for high interfering element. Analysis performed at Accutest Laboratories, Marlborough, MA.



HESS CORPORATION
1 Hess Plaza
Woodbridge, NJ 07095

John Schenkewitz
Manager, Remediation
Corporate EHS&SR
(732) 750-6616
FAX: (732) 750-6805

**New Jersey Department of Environmental Protection
Solid and Hazardous Waste Management Program
Mail Code: 401-02C
P.O. Box 420
401 East State Street
Trenton, NJ 08625-0420
Phone: (609) 633-1418
Fax: (609) 777-1951
or (609) 984-0565**

**RE: Crushed Concrete located at 835 West Ave, Port Reading, New Jersey:
Approval Letter**

Dear Sir/Madam:

This letter is intended to inform you that Hess Corporation will accept up to 690 cubic yards of crushed concrete for beneficial use and placement at our Former Quality Control Laboratory property, located at 835 West Ave, Port Reading, New Jersey. We understand that aforementioned concrete will be generated as the result of the demolition of the demolition of the building at said properties.

Hess will accept this material based on the samples collected on 9/18/2014, 10/16/2014 and 12/4/2014.

Should you have any questions, please do not hesitate to call.

Sincerely,

John Schenkewitz
Manager, Remediation



Maddox Materials, LLC
Quality Aggregates & Construction Soils

February 4, 2020

AWT Environmental
PO Box 128
Sayreville, NJ 08871

Attn: Mario Postorino
Phone: 732-613-1660
Fax: 732-613-1536

Project: Hess
835 West End Avenue
Port Reading, NJ

To whom it may concern:

Please be advised that Maddox Materials, LLC delivered 154.04 tons of ¾" Road stone on 2/3/20 to the above referenced project. These aggregates originated from the Fanwood Crushed Stone quarry. State of New Jersey Department of Labor and Workforce Development mine registration certificate #004598. It is located at #1 New Providence Road, Watchung, NJ, Somerset County tax map Block 76.01 Lot 4,5,6,13,19,20,25,26,27 and 28.

The Quarry has been mining since 1907 from sources of virgin basalt indigenous to the region. This material is considered clean uncontaminated virgin material that does not contain extraneous debris or solid waste, it does not contain free liquids, and has not been subject to a discharged hazardous substance at any time.

If you need any additional information please contact me at 732-251-0054.

Respectfully Submitted,

William Maddox
Member

DISPATCH
CONCRETE (877) 322-4300
STONE (908) 322-7840
ASPHALT (888) 322-2231

FANWOOD CRUSHED STONE CO.

DIVISION OF WELDON MATERIALS, INC.
OFFICE-141 CENTRAL AVE., WESTFIELD, N.J.
(908) 233-4444

Ready Mixed Concrete, Sand, Crushed Stone, Black Top

455290

MANUAL WEIGHTS
TICKET NO.

212100

For Safety Data info go to www.weldonmat.com/sds

CUSTOMER: 414800/000
MADDOX MATERIALS, LLC.
323 MAIN STREET
SPOTSWOOD NJ 08884

JOB: PORT READING HESS
(Woodbridge)

TRUCK NO.

TRUCKER NAME:
BELTRAN 2

P.O. NO.

ZONE:

PRODUCT CODE	PRODUCT	AMOUNT	UNIT PRICE	EXTENSION
34R	3/4" ROADSTONE	GROSS WGT. 39.81 TARE WGT. 14.19 NET WGT. 25.62		

LOADS: 1 ACCUM. AMOUNT 25.62 TONS

LOCATION WHERE
WEIGHED:

WEIGHMASTER NAME:

REC'D BY & AGREE TO ALL TERMS (FRONT & BACK):

DRIVER NAME:

FORM FS - 131



2

DISPATCH

CONCRETE (877) 322-4300
STONE (908) 322-7840
ASPHALT (888) 322-2231

FANWOOD CRUSHED STONE CO.

DIVISION OF WELDON MATERIALS, INC.
OFFICE-141 CENTRAL AVE., WESTFIELD, N.J.
(908) 233-4444

Ready Mixed Concrete, Sand, Crushed Stone, Black Top

455301

MANUAL WEIGHTS
TICKET NO.

212111

For Safety Data info go to www.weldonmat.com/sds

CUSTOMER: 414800/000
MADDOX MATERIALS, LLC.
323 MAIN STREET
SPOTSWOOD NJ 08884

JOB: (WOODBRIDGE) PORT READING
HESS

TRUCK NO.

TRUCKER NAME:
MLS 01

P.O. NO.

ZONE:

PRODUCT CODE	PRODUCT	AMOUNT	UNIT PRICE	EXTENSION
34R	3/4" ROADSTONE	GROSS WGT. 39.55 TARE WGT. 13.05 NET WGT. 26.50		

LOADS: 2 ACCUM. AMOUNT 52.12 TONS

LOCATION WHERE
WEIGHED:

WEIGHMASTER NAME:

REC'D BY & AGREE TO ALL TERMS (FRONT & BACK):

DRIVER NAME:

FORM FS - 131



3

DISPATCH
CONCRETE (877) 322-4300
STONE (908) 322-7840
ASPHALT (888) 322-2231

FANWOOD CRUSHED STONE CO.

DIVISION OF WELDON MATERIALS, INC.
OFFICE-141 CENTRAL AVE. WESTFIELD, N.J.

(908) 233-4444

Ready Mixed Concrete, Sand, Crushed Stone, Black Top

455356

MANUAL WEIGHTS
TICKET NO.

212161

TRUCK NO.

0

TRUCKER NAME:
BELTRAN 2

For Safety Data info go to www.weldonmat.com/sds

CUSTOMER: 414800/000
MADDOX MATERIALS, LLC.
323 MAIN STREET
SPOTSWOOD NJ 08884

JOB: (WOODBRIDGE) PORT READING
HESS

P.O. NO.

ZONE:

PRODUCT CODE	PRODUCT	AMOUNT	UNIT PRICE	EXTENSION
34R	3/4" ROADSTONE	GROSS WGT. 38.59 TARE WGT. 14.19 NET WGT. 24.40		

LOADS: 3 ACCUM. AMOUNT 76.52 TONS

LOCATION WHERE
WEIGHED:

WEIGHMASTER NAME:

REC'D BY & AGREE TO ALL TERMS (FRONT & BACK):

DRIVER NAME:

FORM FS - 131



3

DISPATCH

CONCRETE (877) 322-4300
STONE (908) 322-7840
ASPHALT (888) 322-2231

FANWOOD CRUSHED STONE CO.

DIVISION OF WELDON MATERIALS, INC.
OFFICE-141 CENTRAL AVE. WESTFIELD, N.J.

(908) 233-4444

Ready Mixed Concrete, Sand, Crushed Stone, Black Top

455357

MANUAL WEIGHTS
TICKET NO.

212162

TRUCK NO.

0

TRUCKER NAME:
MCC 111

For Safety Data info go to www.weldonmat.com/sds

CUSTOMER: 414800/000
MADDOX MATERIALS, LLC.
323 MAIN STREET
SPOTSWOOD NJ 08884

JOB: (WOODBRIDGE) PORT READING
HESS

P.O. NO.

ZONE:

PRODUCT CODE	PRODUCT	AMOUNT	UNIT PRICE	EXTENSION
34R	3/4" ROADSTONE	GROSS WGT. 39.24 TARE WGT. 13.05 NET WGT. 26.19		

LOADS: 4 ACCUM. AMOUNT 102.71 TONS

LOCATION WHERE
WEIGHED:

WEIGHMASTER NAME:

REC'D BY & AGREE TO ALL TERMS (FRONT & BACK):

DRIVER NAME:

FORM FS - 131



3

DISPATCH

CONCRETE (877) 322-4300
STONE (908) 322-7840
ASPHALT (888) 322-2231

FANWOOD CRUSHED STONE CO.

DIVISION OF WELDON MATERIALS, INC.
OFFICE-141 CENTRAL AVE., WESTFIELD, N.J.
(908)233-4444

Ready Mixed Concrete, Sand, Crushed Stone, Black Top 455421

For Safety Data info go to www.weldonmat.com/sdsMANUAL WEIGHTS
TICKET NO.

212224

TRUCK NO.

0

TRUCKER NAME:
DELTRAN 2

CUSTOMER: 414800/000
MADDOX MATERIALS, LLC.
323 MAIN STREET
SPOTSWOOD NJ 08884

JOB: (WOODBRIDGE) PORT READING
HESS

P.O. NO.

ZONE:

PRODUCT CODE	PRODUCT	AMOUNT	UNIT PRICE	EXTENSION
34R	3/4" ROADSTONE	GROSS WGT. 30.64 TARE WGT. 14.19 NET WGT. 24.45		

LOADS: 5 ACCUM. AMOUNT 127.16 TONS

LOCATION WHERE
WEIGHED:

WEIGHMASTER NAME:

REC'D BY & AGREE TO ALL TERMS (FRONT & BACK):

DRIVER NAME:

FORM FS - 131



3

DISPATCH

CONCRETE (877) 322-4300
STONE (908) 322-7840
ASPHALT (888) 322-2231

FANWOOD CRUSHED STONE CO.

DIVISION OF WELDON MATERIALS, INC.
OFFICE-141 CENTRAL AVE., WESTFIELD, N.J.
(908)233-4444

Ready Mixed Concrete, Sand, Crushed Stone, Black Top 455422

For Safety Data info go to www.weldonmat.com/sdsMANUAL WEIGHTS
TICKET NO.

212225

TRUCK NO.

0

TRUCKER NAME:
MCS #1

CUSTOMER: 414800/000
MADDOX MATERIALS, LLC.
323 MAIN STREET
SPOTSWOOD NJ 08884

JOB: (WOODBRIDGE) PORT READING
HESS

P.O. NO.

ZONE:

PRODUCT CODE	PRODUCT	AMOUNT	UNIT PRICE	EXTENSION
34R	3/4" ROADSTONE	GROSS WGT. 39.93 TARE WGT. 13.05 NET WGT. 26.88		

LOADS: 0 ACCUM. AMOUNT 154.04 TONS

LOCATION WHERE
WEIGHED:

WEIGHMASTER NAME:

REC'D BY & AGREE TO ALL TERMS (FRONT & BACK):

DRIVER NAME:

FORM FS - 131



IRREVOCABLE STANDBY LETTER OF CREDIT NO: 136925825

Date: August 12, 2021

Beneficiary:

New Jersey Department of Environmental Protection
Site Remediation Program
Bureau of Remedial Action Permitting
401-05S
P.O. Box 420
401 East State Street
Trenton, NJ 08625-0420
Attn: Financial Assurance Coordinator

Applicant:

Hess Corporation
1185 Avenue of the Americas
New York, New York 10036
Attn: John Schenkewitz
j.schenkewitz@hess.com
(609)406-3969

US\$ 68,163.00

RE: Former Hess QA/QC Parcel (AOC – 19) – Port Reading Complex
835 West Avenue
Port Reading, Middlesex County, NJ
NJDEP SRP Program #006148

Dear Sir or Madam:

We hereby establish our irrevocable standby Letter of Credit number 136925825 in your favor, at the request and for the account of Applicant up to the aggregate amount of \$68,163.00 (Sixty Eight Thousand One Hundred Sixty Three and Zero Cents United States Dollars) available upon presentation by you of:

- (1) Your sight draft, bearing reference to this irrevocable standby Letter of Credit number, and
- (2) Your signed statement reading as follows:

"I certify that the amount of the draft is issued and payable in accordance with N.J.S.A. 58:10C-19 and N.J.A.C. 7:26C-5 et seq."

This Letter of Credit is effective as of August 12, 2021 and shall expire on August 12, 2022 but such expiration date shall be automatically extended for a period of at least one (1) year and on each successive expiration date, unless, at least 45 days before the current expiration date, we notify both NJDEP at the above referenced address and Hess Corporation by or overnight courier that we have decided not to extend this Letter of Credit beyond the current expiration date. In the event you are so notified any unused portion of the Letter of Credit shall be available upon presentation of your sight draft for 45 days after the date of receipt, not to exceed the expiry date.



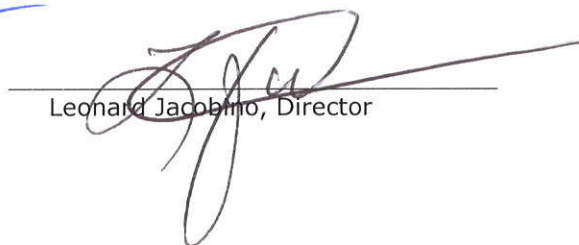
Whenever this Letter of Credit is drawn on under and in compliance with the terms of this Credit, we shall duly honor each draft upon presentation to us, and we shall deposit the amount of the draft directly in accordance with your instructions.

This Letter of Credit is subject to the Uniform Customs and Practice for Documentary Credits (2007 Revision), International Chamber of Commerce Publication No. 600, or later such revision as shall come into effect.

Yours Truly,
Credit Agricole Corporate and Investment Bank



Pik (Winnie) Hung, Senior Associate



Leonard Jacobino, Director

